

Environmental
Resources
Management

July 26, 2007

12755 Olive Blvd
Suite 110
St. Louis, MO 63141
(314) 682-3980
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Missouri Department of Natural Resources
Division of Environmental Quality
St. Louis Regional Office
7545 South Lindbergh, Suite 210
St. Louis, Missouri 63125

RE: Second Quarter 2007 Discharge Monitoring
Exceedences & Corrective Actions Taken
SECO Products Facility - Washington, Missouri
NPDES Permit No. MO-0129313
ERM Project No. 0060492



Dear Division of Environmental Quality:

RECEIVED
JUL 30 2007
ARID/RCAP

BACKGROUND

On behalf of the Hussmann Corporation (Hussmann), Environmental Resources Management (ERM) is submitting this letter to accompany the Second Quarter 2007 Discharge Monitoring Report (DMR) for the former SECO Products Site (SECO) located in Washington, MO. A ground water remediation system is operated at the Site, which discharges treated effluent to Dubois Creek through a single outfall (Outfall #001) under a National Pollution Discharge Elimination System (NPDES) permit (MO-0129313) issued by the Missouri Department of Natural Resources (MDNR) on July 11, 2003.

On March 15, 2007, ERM conducted the First Quarter 2007 discharge monitoring event at the Site. During the sampling event it was noted that the Missouri River was above flood stage causing flooding along Dubois creek due to backwater conditions. The backwater conditions were causing higher than normal recharge rates for the site recovery wells resulting in a situation where the average gallons of ground water being treated through the stripper tower was approaching or just slightly (~2%) over the reported design maximum for the stripper tower. On March 29, 2006, ERM received the analytical report for the discharge sample submitted from the project laboratory, Severn Trent Laboratories (STL). The analytical results indicated that total 1,2-dichloroethylene (1,2-DCE) exceeded the daily maximum and monthly average effluent limits in the Site's NPDES permit. Therefore, based upon past biofouling issues with the stripper tower media, ERM traveled to the Site on June 5 and 6, 2007 to shut the ground water recovery system down and to perform an in situ cleaning of the stripper tower media with a muriatic acid and water solution. This measure was outlined in a January 25, 2007 letter to your office as a preventative measure to be used to deal with media biofouling issues

477025
A standard 1D barcode representing the number 477025.
RCRA BARCODE

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in the event that monthly O&M inspections of the media showed excess build-up of biofouling. In fact, since January 2007, preventative in situ media cleaning events had also occurred on February 1 and 2, 2007 and on April 25 and 26, 2007. After the completion of the June 5 and 6, 2007 in situ media cleaning event, on June 7, 2007, ERM collected another stripper tower discharge sample to verify that the in situ cleaning event was effective. The sample was submitted to the analytical laboratory under expedited turn-around-time (TAT). During this resampling event, the discharge rate of the stripper tower was noted to again be approaching or just slightly (~2%) over the reported design maximum for the stripper tower due to elevated river conditions causing increased recharge in the recovery wells. On June 15, 2007, ERM received the analytical report for the June 7, 2007 discharge resampling event from the project laboratory, STL. The analytical results indicated that the total 1,2-dichloroethylene (1,2-DCE) concentrations were lower than the May 15 sample but still exceeded the daily maximum and monthly average effluent limits in the Site's NPDES permit. Because historical in situ media cleaning events, under similar media biofouling levels, had proved successful with maintaining the discharge within the permitted limits, it was theorized that the exceedence of the 1,2-DCE effluent limits was more likely related to the volume of flow that the stripper tower was receiving during the flooding event along Dubois Creek and the Missouri River.

Therefore, on June 18, 2007, ERM traveled to the Site to evaluate the flood conditions along Dubois Creek and the Missouri River and to collect discharge flow rate information from the stripper tower. The flow rate was measured during the site visit and found to be approximately 43,000 gallons per day (gpd), well below the reported design maximum flow rate of 60,480 gpd for the stripper tower. As a result of the discharge flow rate being within the stripper tower's capacity, ERM collected another discharge sample for VOC analysis in an attempt to validate that the flow rate through the stripper tower during the flooding event was causing the discharge exceedences for 1,2-DCE. The sample was submitted to the analytical laboratory under expedited TAT. On June 26, 2007, ERM received the analytical report for the June 18, 2007 discharge resampling event from the project laboratory, STL. The analytical results indicated that the total 1,2-dichloroethylene (1,2-DCE) concentration was similar to those in the May 15 sample, and still exceeded the daily maximum and monthly average effluent limits in the Site's NPDES permit. As a result, it was determined that the quickest method for getting the stripper tower discharge back into compliance was to change-out the old media with new media. Therefore, on June 29, 2007, ERM traveled to the site and shut the ground water recovery and stripper tower systems off. On July 2, 2007, the media in the tower was cleaned out and the interior of the tower was pressure washed. New media was repacked inside the tower and the system restarted on July 6, 2007. A

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discharge sample was collected from the stripper tower on July 12, 2007 to confirm that the media change-out was effective in bringing the stripper tower discharge back into compliance. Results of the July 12, 2007 sampling effort indicated concentrations of TCE and 1,2-DCE in the effluent water from the stripper tower, however, at concentrations below the permitted discharge standards.

The DMRs and analytical reports for the 2nd Quarter 2007 initial and follow-up discharge sampling events are contained in Attachment A, Attachment B, and Attachment C, respectively. A copy of the analytical report for the discharge sample collected on July 12, 2007, after the media change out, is included in Attachment D. Because this sample was collected during the 3rd Quarter 2007 period (July 1 through September 30, 2007) a DMR for this sampling event has not been included with this submittal. A DMR for this event will be included in the 3rd Quarter 2007 report to the MDNR, which is due on or before October 28, 2007.

ROOT CAUSE IDENTIFICATION & PREVENTATIVE ACTION HISTORY

Historically, as identified in the July 27, 2006 letter that accompanied the Second Quarter 2006 DMRs, the discharge exceedences during the Second Quarter 2006 were attributed to a number of discharge line disturbances causing premature fouling of the stripper tower media.

However, between the change out of the stripper tower media on July 17, 2006 and the exceedence identified by the October 24, 2006 (4th Quarter 2006) sampling event, no discharge line or ground water recovery system disturbances were identified. Therefore, the root cause of the 4th Quarter 2006 exceedence was identified as premature clogging of the media, which was caused by the extra nutrient loading to the system from the new recovery well, RW-8.

Beginning in January 2007, in an effort to take a preventative approach, and consistent with the request made by the USEPA Project Manager in an October 19, 2006 comment letter, ERM initiated a program by which the stripper tower media is inspected during each monthly O&M event performed at the Site to determine the degree to which iron oxide is building up on the media. Under this program, if the media is determined to have appreciable buildup it is cleaned, *in situ*, with a muriatic acid and water solution. If the media is severely clogged and/or the *in situ* cleaning is not effective, the media is changed out with new media. The preventative maintenance approach of *in situ* cleaning of the media appeared to be working during the first five months of 2007. However, the 2nd Quarter 2007 exceedences of the discharge standard for 1,2-DCE that were experienced while implementing the current *in situ* cleaning

0.059 mg/L DCE
more than half
the monthly limit!
avg NPDES limit!

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preventative maintenance approach, and the subsequent need to change out the media to bring the stripper tower discharge back into compliance, has resulted in a need to re-evaluate the current preventative action program for the stripper tower at the Site. This re-evaluation is necessary because the current approach has become reactionary verses preventative (proactive).

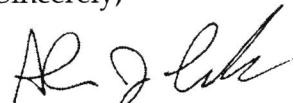
FUTURE PREVENTITIVE ACTION EVALUATION

In an effort to develop a more proactive and effective stripper tower maintenance program, ERM has proposed to Hussmann to re-evaluate the approach used concerning preventative maintenance associated with the stripper tower media. ERM is currently in the process of looking into a number of continuous influent water treatment options to manage the precipitation of iron, as well as the growth of iron oxide bacteria, both of which are the most likely contributors to the biofouling of the stripper tower media. Since the facility does not have access to a sewer connection to the City of Washington, Missouri's wastewater treatment plant, a key factor that needs to be considered when evaluating a new approach that includes the addition of sequestering agents or biocides, is that the addition of these items to the stripper tower influent water does not cause any additional issues associated with it's discharge. Therefore, the sequestering agents or biocides considered will need to be safe for direct discharge to surface water.

Once a revised preventative maintenance program has been developed it will be presented to your office for review. We anticipate that the new preventative maintenance program for the stripper tower will be developed before the end of August 2007.

If you have any question or comments concerning the contents of this letter please do not hesitate to contact me.

Sincerely,



Alan J. Cork, P.E.
Senior Project Manager

Attachments

cc: Tom Wind - Hussmann
David Sordi - Ingersoll Rand (electronic copy)
Daniel Gravatt - USEPA Region VII

Attachment 1

2nd Quarter 2007 DMR

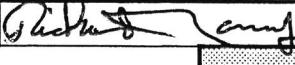
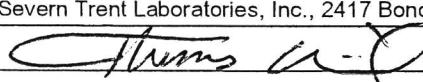
May 15, 2007 Sample Event

MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
NPDES MONITORING REPORT FOR NON-MUNICIPAL WASTEWATER DISCHARGES

SECOND QUARTER 2007

INSTRUCTIONS:

1. Mail completed report to the MDNR St. Louis Regional Office, 7545 South Lindbergh, Suite 210, St. Louis, MO 63125
2. Report must be signed by the owner and by the analyst. Report should be typed or neatly printed.
3. Part A of the permit specifies the parameters to be monitored, frequency of monitoring and frequency of reporting results. If quarterly reports are required, they are due on April 28, July 28, October 28, and January 28, each report covering the 3-month period not including the reporting month. See the permit for reporting dates other than quarterly.
4. Report results of all analyses, even if performed more frequently than required by Part A of the permit.
5. File a report even if discharge is intermittent and no discharge occurred during the monitoring period. Complete the identification section, write "ND" in the appropriate columns for the dates the facility was checked, and sign the report. NOTE: If a discharge occurs at any time during the monitoring period, it must be reported.
6. Under "Sample Type" indicate whether sample analyzed was: (a) grab sample; (b) 24-hour composite sample; or (c) modified composite sample. NOTE: See permit for type of sample required for each parameter.
7. Under "Sample Type" for flow indicate whether figures shown are based on (a) instantaneous measurements or (b) actual 24-hour measured flow. Figure recorded is to represent the total 24-hour flow for the data shown or a reasonable estimate.
8. Indicate whether samples were collected by owner or by personnel of the lab performing the analyses.

| Facility Name: | Former SECO Products Facility Site | | Permit Number: | MO-0129313 | County: | Franklin | Owner: | Hussmann | Facility Type: | GW Remediation Systm |
|-----------------------------------|---|-------------|--|-------------------------------------|---------------|--|---|---------------------------------------|-----------------------------------|----------------------|
| Required Frequency of Monitoring: | | | This Report Covers the Period: | April 1, 2007 through June 30, 2007 | | REMARKS & COMMENTS (Record, as appropriate, such information as method of preservation, methods of sample collection, abnormal age of sample, explanation of unusual results, etc.) | | | | |
| Dates Sampled: | 5/15/2007 | | 5/15/2007 | 5/15/2007 | 5/15/2007 | | | | | |
| Time Sampled: | 1440 | | 1437 | 1436 | 1435 | | | | | |
| Sample Collected By: | D Wilkens-ERM | | D Wilkens-ERM | D Wilkens-ERM | D Wilkens-ERM | | | | | |
| Analyses Date: | 5/24/2007 | | 5/15/2007 | 5/15/2007 | 5/15/2007 | | | | | |
| Parameters | Permitted Final Limits | | RECORD ACTUAL RESULTS OF ANALYSIS-DO NOT AVERAGE | | | Sample Type: | Sample Analytical Method: | | | |
| | Daily Max | Monthly Avg | | | | | | | | |
| Flow (mgpd) | * | * | 0.061714 | - | - | 24-Hr Est | Direct Measurement | All 8 Recovery Wells Were Operational | | |
| BOD (mg/L) | NA | NA | NA | NA | NA | - | - | | | |
| TSS (mg/L) | NA | NA | NA | NA | NA | - | - | | | |
| pH (Std. Units) | 6.0-9.0 | 6.0-9.0 | - | 7.42 | 7.41 | 7.46 | Grab | Field pH Meter | Field Measurement | |
| Fecal Coliform/100 ml | NA | NA | NA | NA | NA | NA | - | - | | |
| 1,2-dichloroethylene (mg/L) | 0.200 | 0.100 | 0.5536 | - | - | - | Grab | EPA Method SW8260B | Preservation by HCL & Cool to 4°C | |
| 1,1-dichloroethylene (mg/L) | 0.008 | 0.008 | ND | - | - | - | Grab | EPA Method SW8260B | Preservation by HCL & Cool to 4°C | |
| trichloroethylene (mg/L) | 0.16 | 0.16 | 0.042 | - | - | - | Grab | EPA Method SW8260B | Preservation by HCL & Cool to 4°C | |
| v vinyl chloride (mg/L) | * | * | 0.0019 | - | - | - | Grab | EPA Method SW8260B | Preservation by HCL & Cool to 4°C | |
| Analyses Performed By: | Severn Trent Laboratories, Inc., 2417 Bond St., University Park, IL, 60466 | | | | | Signature of Analyst: |  | /Rich Mannz, STL | | |
| Report Approved By Owner: |  | | | | | /Tom Wind, Director for Global EH&S, I-R | | Date: | 7/26/2007 | |

Notes:

* = Monitoring requirement only

NA = Not applicable/not required to be analyzed

ND = Not detected above the detection limit indicated

"-" = not analyzed

J = analyte is reported as an estimated value below the method reporting limit

D = result was obtained from the analysis of a dilution

Based on MDNR Form MO 780-1307 (7-01)

STL

ANALYTICAL REPORT

Job Number: 500-4239-1

Job Description: SECO Washington, MO

For:
ERM Inc.
12755 Olive Blvd
Suite 110
St. Louis, MO 63141

Attention: Mr. Alan Cork



Rich Mannz
Project Manager II
rmannz@stl-inc.com
05/29/2007

Project Manager: Rich Mannz

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the STL Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Severn Trent Laboratories, Inc.

STL Chicago 2417 Bond Street, University Park, IL 60466
Tel (708) 534-5200 Fax (708) 534-5211 www.stl-inc.com



Job Narrative
500-J4239-1

I. Comments

No additional comments.

II. Receipt

All samples were received in good condition within temperature requirements.

III. GC/MS VOA

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERM Inc.

Job Number: 500-4239-1

| Lab Sample ID Analyte | Client Sample ID Result / Qualifier | Reporting Limit | Units | Method |
|--|--|--------------------|-------|--------|
| 500-4239-1 STRIPPER TOWER DISCHARGE | | | | |
| cis-1,2-Dichloroethene | 550 | 10 | ug/L | 8260B |
| trans-1,2-Dichloroethene | 3.6 | 1.0 | ug/L | 8260B |
| Trichloroethene | 42 | 1.0 | ug/L | 8260B |
| Vinyl chloride | 1.9 | 1.0 | ug/L | 8260B |

METHOD SUMMARY

Client: ERM Inc.

Job Number: 500-4239-1

| Description | Lab Location | Method | Preparation Method |
|---|--------------------|-------------|--------------------|
| Matrix: Water | | | |
| Volatile Organic Compounds by GC/MS Purge-and-Trap | STL CHI STL CHI | SW846 8260B | SW846 5030B |

LAB REFERENCES:

STL CHI = STL Chicago

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

STL Chicago

METHOD / ANALYST SUMMARY

Client: ERM Inc.

Job Number: 500-4239-1

| Method | Analyst | Analyst ID |
|---------------|----------------|-------------------|
| SW846 8260B | Drabek, Dave J | DJD |

SAMPLE SUMMARY

Client: ERM Inc.

Job Number: 500-4239-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|-----------------------------|---------------|-------------------|--------------------|
| 500-4239-1 | STRIPPER TOWER DISCHARGE | Water | 05/15/2007 1440 | 05/16/2007 0930 |

SAMPLE RESULTS

Mr. Alan Cork
 ERM Inc.
 12755 Olive Blvd
 Suite 110
 St. Louis, MO 63141

Job Number: 500-4239-1

Client Sample ID: STRIPPER TOWER DISCHARGE
Lab Sample ID: 500-4239-1

Date Sampled: 05/15/2007 1440
 Date Received: 05/16/2007 0930
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-----------------------------|------------------|-----------------|------|-----|----------|
| Method: 8260B | Date Analyzed: | 05/24/2007 0300 | | | |
| Prep Method: 5030B | Date Prepared: | 05/24/2007 0300 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 0.33 | 1.0 | 1.0 |
| 1,1,1-Trichloroethane | ND | ug/L | 0.17 | 1.0 | 1.0 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 0.34 | 1.0 | 1.0 |
| 1,1,2-Trichloroethane | ND | ug/L | 0.24 | 1.0 | 1.0 |
| 1,1-Dichloroethane | ND | ug/L | 0.15 | 1.0 | 1.0 |
| 1,1-Dichloroethene | ND | ug/L | 0.25 | 1.0 | 1.0 |
| 1,1-Dichloropropene | ND | ug/L | 0.38 | 1.0 | 1.0 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 0.43 | 1.0 | 1.0 |
| 1,2,3-Trichloropropane | ND | ug/L | 0.35 | 1.0 | 1.0 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 0.36 | 1.0 | 1.0 |
| 1,2,4-Trimethylbenzene | ND | ug/L | 0.26 | 1.0 | 1.0 |
| 1,2-Dichloroethane | ND | ug/L | 0.25 | 1.0 | 1.0 |
| 1,2-Dichlorobenzene | ND | ug/L | 0.29 | 1.0 | 1.0 |
| 1,2-Dichloropropane | ND | ug/L | 0.19 | 1.0 | 1.0 |
| 1,3,5-Trimethylbenzene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| 1,3-Dichlorobenzene | ND | ug/L | 0.21 | 1.0 | 1.0 |
| 1,3-Dichloropropane | ND | ug/L | 0.22 | 1.0 | 1.0 |
| 1,4-Dichlorobenzene | ND | ug/L | 0.25 | 1.0 | 1.0 |
| 2,2-Dichloropropane | ND | ug/L | 0.17 | 1.0 | 1.0 |
| 2-Hexanone | ND | ug/L | 0.99 | 5.0 | 1.0 |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 0.92 | 5.0 | 1.0 |
| Acetone | ND | ug/L | 1.4 | 5.0 | 1.0 |
| Benzene | ND | ug/L | 0.23 | 1.0 | 1.0 |
| Bromobenzene | ND | ug/L | 0.22 | 1.0 | 1.0 |
| Bromochloromethane | ND | ug/L | 0.27 | 1.0 | 1.0 |
| Bromodichloromethane | ND | ug/L | 0.22 | 1.0 | 1.0 |
| Bromomethane | ND | ug/L | 0.59 | 1.0 | 1.0 |
| Bromoform | ND | ug/L | 0.32 | 1.0 | 1.0 |
| n-Butylbenzene | ND | ug/L | 0.35 | 1.0 | 1.0 |
| cis-1,3-Dichloropropene | ND | ug/L | 0.15 | 1.0 | 1.0 |
| Carbon disulfide | ND | ug/L | 0.15 | 5.0 | 1.0 |
| Carbon tetrachloride | ND | ug/L | 0.34 | 1.0 | 1.0 |
| Chlorobenzene | ND | ug/L | 0.15 | 1.0 | 1.0 |
| Chloroethane | ND | ug/L | 0.32 | 1.0 | 1.0 |
| Chloroform | ND | ug/L | 0.14 | 1.0 | 1.0 |
| Chloromethane | ND | ug/L | 0.20 | 1.0 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 0.41 | 1.0 | 1.0 |
| Dibromochloromethane | ND | ug/L | 0.22 | 1.0 | 1.0 |
| Dibromomethane | ND | ug/L | 0.21 | 1.0 | 1.0 |
| Dichlorodifluoromethane | ND | ug/L | 0.12 | 1.0 | 1.0 |

Mr. Alan Cork
 ERM Inc.
 12755 Olive Blvd
 Suite 110
 St. Louis, MO 63141

Job Number: 500-4239-1

Client Sample ID: STRIPPER TOWER DISCHARGE
Lab Sample ID: 500-4239-1

Date Sampled: 05/15/2007 1440
 Date Received: 05/16/2007 0930
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|------------------------------|------------------|-----------------|------|--------------------------|----------|
| Method: 8260B | Date Analyzed: | 05/24/2007 0300 | | | |
| Prep Method: 5030B | Date Prepared: | 05/24/2007 0300 | | | |
| 1,2-Dibromoethane | ND | ug/L | 0.33 | 1.0 | 1.0 |
| Ethylbenzene | ND | ug/L | 0.21 | 1.0 | 1.0 |
| Hexachlorobutadiene | ND * | ug/L | 0.36 | 1.0 | 1.0 |
| Isopropylbenzene | ND | ug/L | 0.20 | 1.0 | 1.0 |
| p-Isopropyltoluene | ND | ug/L | 0.29 | 1.0 | 1.0 |
| 2-Butanone (MEK) | ND | ug/L | 1.0 | 5.0 | 1.0 |
| Methylene Chloride | ND | ug/L | 0.24 | 1.0 | 1.0 |
| m&p-Xylene | ND | ug/L | 0.36 | 2.0 | 1.0 |
| Methyl tert-butyl ether | ND | ug/L | 0.21 | 1.0 | 1.0 |
| Naphthalene | ND | ug/L | 0.37 | 1.0 | 1.0 |
| 2-Chlorotoluene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| o-Xylene | ND | ug/L | 0.19 | 1.0 | 1.0 |
| Tetrachloroethene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| 4-Chlorotoluene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| N-Propylbenzene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| sec-Butylbenzene | ND | ug/L | 0.19 | 1.0 | 1.0 |
| Styrene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| trans-1,2-Dichloroethene | 3.6 | ug/L | 0.29 | 1.0 | 1.0 |
| trans-1,3-Dichloropropene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| tert-Butylbenzene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| Trichloroethene | 42 | ug/L | 0.13 | 1.0 | 1.0 |
| Trichlorofluoromethane | ND | ug/L | 0.14 | 1.0 | 1.0 |
| Toluene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| Vinyl chloride | 1.9 | ug/L | 0.16 | 1.0 | 1.0 |
| Surrogate | | | | | |
| | | | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 105 | % | | 70 - 125 | |
| Toluene-d8 (Surr) | 98 | % | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | 96 | % | | 75 - 120 | |
| Dibromofluoromethane | 96 | % | | 75 - 120 | |

| | | | | | |
|-----------------------------------|----------------|-----------------|-----|--------------------------|----|
| Method: 8260B Run Type: DL | Date Analyzed: | 05/24/2007 0323 | | | |
| Prep Method: 5030B | Date Prepared: | 05/24/2007 0323 | | | |
| cis-1,2-Dichloroethene | 550 | ug/L | 2.0 | 10 | 10 |
| Surrogate | | | | | |
| | | | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 107 | % | | 70 - 125 | |
| Toluene-d8 (Surr) | 98 | % | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | 98 | % | | 75 - 120 | |
| Dibromofluoromethane | 95 | % | | 75 - 120 | |

Mr. Alan Cork
ERM Inc.
12755 Olive Blvd
Suite 110
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Job Number: 500-4239-1

Client Sample ID: STRIPPER TOWER DISCHARGE
Lab Sample ID: 500-4239-1

Date Sampled: 05/15/2007 1440
Date Received: 05/16/2007 0930
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|----------------------------|------------------|-----------------|-----|----|----------|
| Method: 8260B Run Type: DL | Date Analyzed: | 05/24/2007 0323 | | | |
| Prep Method: 5030B | Date Prepared: | 05/24/2007 0323 | | | |

DATA REPORTING QUALIFIERS

Client: ERM Inc.

Job Number: 500-4239-1

| Lab Section | Qualifier | Description |
|--------------------|------------------|--|
| GC/MS VOA | * | LCS or LCSD exceeds the control limits |

QUALITY CONTROL RESULTS

Quality Control Results

Client: ERM Inc.

Job Number: 500-4239-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | | | Prep Batch | | |
|---------------------------------|--------------------------|--------------|---------------|--------|------------|--|--|
| | | Basis | Client Matrix | Method | | | |
| GC/MS VOA | | | | | | | |
| Analysis Batch:500-15657 | | | | | | | |
| LCS 500-15657/4 | Lab Control Spike | T | Water | 8260B | | | |
| MB 500-15657/3 | Method Blank | T | Water | 8260B | | | |
| 500-4239-1 | STRIPPER TOWER DISCHARGE | T | Water | 8260B | | | |
| 500-4239-1DL | STRIPPER TOWER DISCHARGE | T | Water | 8260B | | | |

Report Basis

T = Total

Quality Control Results

Client: ERM Inc.

Job Number: 500-4239-1

Surrogate Recovery Report

8260B Volatile Organic Compounds by GC/MS

Client Matrix: Water

| Lab Sample ID | Client Sample ID | (BFB) (%Rec) | (DCE) (%Rec) | (DFM) (%Rec) | (TOL) (%Rec) |
|-----------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|
| 500-4239-1 | STRIPPER TOWER DISCHARGE | 96 | 105 | 96 | 98 |
| 500-4239-1 DL | STRIPPER TOWER DISCHARGE | 98 | 107 | 95 | 98 |
| LCS 500-15657/4 | | 101 | 100 | 90 | 98 |
| MB 500-15657/3 | | 96 | 102 | 88 | 97 |

| Surrogate | Acceptance Limits |
|------------------------------------|-------------------|
| (BFB) 4-Bromofluorobenzene (Surr) | 75 - 120 |
| (DCE) 1,2-Dichloroethane-d4 (Surr) | 70 - 125 |
| (DFM) Dibromofluoromethane | 75 - 120 |
| (TOL) Toluene-d8 (Surr) | 75 - 120 |

Quality Control Results

Client: ERM Inc.

Job Number: 500-4239-1

Method Blank - Batch: 500-15657

**Method: 8260B
Preparation: 5030B**

Lab Sample ID: MB 500-15657/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/23/2007 1748
Date Prepared: 05/23/2007 1748

Analysis Batch: 500-15657
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 6890N GC - 5975N
Lab File ID: 18M0523.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Result | Qual | MDL | RL |
|-----------------------------|--------|------|------|-----|
| 1,1,1,2-Tetrachloroethane | ND | | 0.33 | 1.0 |
| 1,1,1-Trichloroethane | ND | | 0.17 | 1.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.34 | 1.0 |
| 1,1,2-Trichloroethane | ND | | 0.24 | 1.0 |
| 1,1-Dichloroethane | ND | | 0.15 | 1.0 |
| 1,1-Dichloroethene | ND | | 0.25 | 1.0 |
| 1,1-Dichloropropene | ND | | 0.38 | 1.0 |
| 1,2,3-Trichlorobenzene | ND | | 0.43 | 1.0 |
| 1,2,3-Trichloropropane | ND | | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | ND | | 0.36 | 1.0 |
| 1,2,4-Trimethylbenzene | ND | | 0.26 | 1.0 |
| 1,2-Dichloroethane | ND | | 0.25 | 1.0 |
| 1,2-Dichlorobenzene | ND | | 0.29 | 1.0 |
| 1,2-Dichloropropane | ND | | 0.19 | 1.0 |
| 1,3,5-Trimethylbenzene | ND | | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | ND | | 0.21 | 1.0 |
| 1,3-Dichloropropane | ND | | 0.22 | 1.0 |
| 1,4-Dichlorobenzene | ND | | 0.25 | 1.0 |
| 2,2-Dichloropropane | ND | | 0.17 | 1.0 |
| 2-Hexanone | ND | | 0.99 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.92 | 5.0 |
| Acetone | ND | | 1.4 | 5.0 |
| Benzene | ND | | 0.23 | 1.0 |
| Bromobenzene | ND | | 0.22 | 1.0 |
| Bromoform | ND | | 0.27 | 1.0 |
| Bromochloromethane | ND | | 0.22 | 1.0 |
| Bromodichloromethane | ND | | 0.59 | 1.0 |
| Bromomethane | ND | | 0.32 | 1.0 |
| cis-1,2-Dichloroethene | ND | | 0.35 | 1.0 |
| cis-1,3-Dichloropropene | ND | | 0.20 | 1.0 |
| Carbon disulfide | ND | | 0.15 | 1.0 |
| Chlorobenzene | ND | | 0.15 | 1.0 |
| Chloroethane | ND | | 0.32 | 1.0 |
| Chloroform | ND | | 0.14 | 1.0 |
| Chloromethane | ND | | 0.20 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.41 | 1.0 |
| Dibromochloromethane | ND | | 0.22 | 1.0 |
| Dibromomethane | ND | | 0.21 | 1.0 |
| Dichlorodifluoromethane | ND | | 0.12 | 1.0 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ERM Inc.

Job Number: 500-4239-1

Method Blank - Batch: 500-15657

Lab Sample ID: MB 500-15657/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/23/2007 1748
Date Prepared: 05/23/2007 1748

Analysis Batch: 500-15657
Prep Batch: N/A
Units: ug/L

Method: 8260B
Preparation: 5030B

Instrument ID: Agilent 6890N GC - 5975N
Lab File ID: 18M0523.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Result | Qual | MDL | RL |
|------------------------------|--------|------|-------------------|-----|
| 1,2-Dibromoethane | ND | | 0.33 | 1.0 |
| Ethylbenzene | ND | | 0.21 | 1.0 |
| Hexachlorobutadiene | ND | | 0.36 | 1.0 |
| Isopropylbenzene | ND | | 0.20 | 1.0 |
| p-Isopropyltoluene | ND | | 0.29 | 1.0 |
| 2-Butanone (MEK) | ND | | 1.0 | 5.0 |
| Methylene Chloride | ND | | 0.24 | 1.0 |
| m&p-Xylene | ND | | 0.36 | 2.0 |
| Methyl tert-butyl ether | ND | | 0.21 | 1.0 |
| Naphthalene | ND | | 0.37 | 1.0 |
| 2-Chlorotoluene | ND | | 0.16 | 1.0 |
| o-Xylene | ND | | 0.19 | 1.0 |
| Tetrachloroethene | ND | | 0.18 | 1.0 |
| 4-Chlorotoluene | ND | | 0.18 | 1.0 |
| N-Propylbenzene | ND | | 0.16 | 1.0 |
| sec-Butylbenzene | ND | | 0.19 | 1.0 |
| Styrene | ND | | 0.18 | 1.0 |
| trans-1,2-Dichloroethene | ND | | 0.29 | 1.0 |
| trans-1,3-Dichloropropene | ND | | 0.16 | 1.0 |
| tert-Butylbenzene | ND | | 0.16 | 1.0 |
| Trichloroethene | ND | | 0.13 | 1.0 |
| Trichlorofluoromethane | ND | | 0.14 | 1.0 |
| Toluene | ND | | 0.18 | 1.0 |
| Vinyl chloride | ND | | 0.16 | 1.0 |
| Surrogate | % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 70 - 125 | |
| Toluene-d8 (Surr) | 97 | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | 96 | | 75 - 120 | |
| Dibromofluoromethane | 88 | | 75 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ERM Inc.

Job Number: 500-4239-1

Lab Control Spike - Batch: 500-15657

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 500-15657/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/23/2007 2011
Date Prepared: 05/23/2007 2011

Analysis Batch: 500-15657
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 6890N GC - 5975N
Lab File ID: 18S0523b.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|-----------------------------|--------------|--------|--------|----------|------|
| 1,1,1,2-Tetrachloroethane | 25.0 | 22.7 | 91 | 72 - 120 | |
| 1,1,1-Trichloroethane | 25.0 | 23.1 | 92 | 65 - 129 | |
| 1,1,2,2-Tetrachloroethane | 25.0 | 20.1 | 80 | 68 - 120 | |
| 1,1,2-Trichloroethane | 25.0 | 19.6 | 79 | 59 - 135 | |
| 1,1-Dichloroethane | 25.0 | 19.4 | 78 | 63 - 121 | |
| 1,1-Dichloroethene | 25.0 | 28.7 | 115 | 50 - 121 | |
| 1,1-Dichloropropene | 25.0 | 21.2 | 85 | 62 - 122 | |
| 1,2,3-Trichlorobenzene | 25.0 | 29.1 | 116 | 62 - 120 | |
| 1,2,3-Trichloropropane | 25.0 | 19.1 | 76 | 70 - 120 | |
| 1,2,4-Trichlorobenzene | 25.0 | 29.3 | 117 | 63 - 120 | |
| 1,2,4-Trimethylbenzene | 25.0 | 21.1 | 85 | 76 - 120 | |
| 1,2-Dichloroethane | 25.0 | 23.0 | 92 | 68 - 120 | |
| 1,2-Dichlorobenzene | 25.0 | 22.3 | 89 | 74 - 120 | |
| 1,2-Dichloropropane | 25.0 | 20.6 | 82 | 72 - 120 | |
| 1,3,5-Trimethylbenzene | 25.0 | 21.7 | 87 | 76 - 120 | |
| 1,3-Dichlorobenzene | 25.0 | 21.2 | 85 | 76 - 120 | |
| 1,3-Dichloropropane | 25.0 | 21.2 | 85 | 73 - 120 | |
| 1,4-Dichlorobenzene | 25.0 | 21.2 | 85 | 74 - 120 | |
| 2,2-Dichloropropane | 25.0 | 24.3 | 97 | 56 - 134 | |
| 2-Hexanone | 25.0 | 18.7 | 75 | 54 - 139 | |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 19.7 | 79 | 65 - 128 | |
| Acetone | 25.0 | 20.0 | 80 | 22 - 175 | |
| Benzene | 25.0 | 21.7 | 87 | 68 - 120 | |
| Bromobenzene | 25.0 | 20.2 | 81 | 76 - 120 | |
| Bromochloromethane | 25.0 | 20.1 | 80 | 61 - 125 | |
| Bromodichloromethane | 25.0 | 25.4 | 101 | 71 - 131 | |
| Bromomethane | 25.0 | 32.6 | 131 | 61 - 172 | |
| Bromoform | 25.0 | 20.3 | 81 | 55 - 120 | |
| n-Butylbenzene | 25.0 | 24.9 | 100 | 68 - 120 | |
| cis-1,2-Dichloroethene | 25.0 | 21.1 | 84 | 62 - 127 | |
| cis-1,3-Dichloropropene | 26.9 | 20.3 | 76 | 60 - 120 | |
| Carbon disulfide | 25.0 | 21.2 | 85 | 33 - 120 | |
| Carbon tetrachloride | 25.0 | 26.5 | 106 | 67 - 121 | |
| Chlorobenzene | 25.0 | 21.5 | 86 | 75 - 120 | |
| Chloroethane | 25.0 | 29.6 | 118 | 56 - 152 | |
| Chloroform | 25.0 | 20.7 | 83 | 65 - 127 | |
| Chloromethane | 25.0 | 26.4 | 106 | 50 - 140 | |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 25.2 | 101 | 60 - 120 | |
| Dibromochloromethane | 25.0 | 21.4 | 86 | 57 - 132 | |
| Dibromomethane | 25.0 | 22.2 | 89 | 71 - 120 | |
| Dichlorodifluoromethane | 25.0 | 28.7 | 115 | 21 - 178 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ERM Inc.

Job Number: 500-4239-1

Lab Control Spike - Batch: 500-15657

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 500-15657/4

Analysis Batch: 500-15657

Instrument ID: Agilent 6890N GC - 5975N

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 18S0523b.D

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 10 mL

Date Analyzed: 05/23/2007 2011

Final Weight/Volume: 10 mL

Date Prepared: 05/23/2007 2011

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------------------------|--------------|--------|--------|-------------------|------|
| 1,2-Dibromoethane | 25.0 | 22.1 | 88 | 68 - 125 | |
| Ethylbenzene | 25.0 | 22.0 | 88 | 75 - 120 | |
| Hexachlorobutadiene | 25.0 | 34.6 | 138 | 54 - 131 | * |
| Isopropylbenzene | 25.0 | 18.1 | 72 | 68 - 120 | |
| p-Isopropyltoluene | 25.0 | 22.9 | 92 | 71 - 120 | |
| 2-Butanone (MEK) | 25.0 | 22.0 | 88 | 36 - 157 | |
| Methylene Chloride | 25.0 | 19.7 | 79 | 52 - 126 | |
| m&p-Xylene | 50.0 | 45.9 | 92 | 75 - 120 | |
| Methyl tert-butyl ether | 25.0 | 20.4 | 81 | 54 - 140 | |
| Naphthalene | 25.0 | 25.5 | 102 | 50 - 120 | |
| 2-Chlorotoluene | 25.0 | 20.4 | 82 | 74 - 120 | |
| o-Xylene | 25.0 | 22.4 | 90 | 75 - 120 | |
| Tetrachloroethene | 25.0 | 22.9 | 92 | 65 - 120 | |
| 4-Chlorotoluene | 25.0 | 20.8 | 83 | 75 - 120 | |
| N-Propylbenzene | 25.0 | 20.9 | 84 | 74 - 120 | |
| sec-Butylbenzene | 25.0 | 22.3 | 89 | 73 - 120 | |
| Styrene | 25.0 | 23.5 | 94 | 77 - 120 | |
| trans-1,2-Dichloroethene | 25.0 | 20.8 | 83 | 57 - 122 | |
| trans-1,3-Dichloropropene | 24.3 | 19.4 | 80 | 61 - 120 | |
| tert-Butylbenzene | 25.0 | 21.5 | 86 | 75 - 120 | |
| Trichloroethene | 25.0 | 23.0 | 92 | 73 - 120 | |
| Trichlorofluoromethane | 25.0 | 31.6 | 126 | 58 - 147 | |
| Toluene | 25.0 | 22.0 | 88 | 75 - 120 | |
| Vinyl chloride | 25.0 | 27.3 | 109 | 57 - 135 | |
| Surrogate | | % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | | 100 | | 70 - 125 | |
| Toluene-d8 (Surr) | | 98 | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | | 101 | | 75 - 120 | |
| Dibromofluoromethane | | 90 | | 75 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERM Inc.

Job Number: 500-4239-1

Login Number: 4239

| Question | T/F/NA | Comment |
|--|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 2.3 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |

Attachment 2

2nd Quarter 2007 DMR

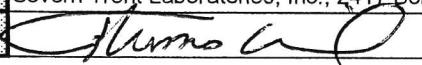
June 7, 2007 Sample Event

MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
NPDES MONITORING REPORT FOR NON-MUNICIPAL WASTEWATER DISCHARGES

SECOND QUARTER 2007 RESAMPLE (6/7/07)

INSTRUCTIONS:

1. Mail completed report to the MDNR St. Louis Regional Office, 7545 South Lindbergh, Suite 210, St. Louis, MO 63125
2. Report must be signed by the owner and by the analyst. Report should be typed or neatly printed.
3. Part A of the permit specifies the parameters to be monitored, frequency of monitoring and frequency of reporting results. If quarterly reports are required, they are due on April 28, July 28, October 28, and January 28, each report covering the 3-month period not including the reporting month. See the permit for reporting dates other than quarterly.
4. Report results of all analyses, even if performed more frequently than required by Part A of the permit.
5. File a report even if discharge is intermittent and no discharge occurred during the monitoring period. Complete the identification section, write "ND" in the appropriate columns for the dates the facility was checked, and sign the report. NOTE: If a discharge occurs at any time during the monitoring period, it must be reported.
6. Under "Sample Type" indicate whether sample analyzed was: (a) grab sample; (b) 24-hour composite sample; or (c) modified composite sample. NOTE: See permit for type of sample required for each parameter.
7. Under "Sample Type" for flow indicate whether figures shown are based on (a) instantaneous measurements or (b) actual 24-hour measured flow. Figure recorded is to represent the total 24-hour flow for the data shown or a reasonable estimate.
8. Indicate whether samples were collected by owner or by personnel of the lab performing the analyses.

| Facility Name: | Former SECO Products Facility Site | | Permit Number: | MO-0129313 | County: | Franklin | Owner: | Hussmann | Facility Type: | GW Remediation Systm |
|-----------------------------------|---|-------------|--|------------|-------------------------------------|--|--|--------------------|---------------------------------------|----------------------|
| Required Frequency of Monitoring: | Quarterly | | This Report Covers the Period: | | April 1, 2007 through June 30, 2007 | | REMARKS & COMMENTS (Record, as appropriate, such information as method of preservation, methods of sample collection, abnormal age of sample, explanation of unusual results, etc.) | | | |
| Date Sampled | 6/7/2007 | | 6/7/2007 | 6/7/2007 | 6/7/2007 | | | | | |
| Time Sampled | 1357 | | 1354 | 1352 | 1350 | | | | | |
| Sample Collected By | A Cork-ERM | | A Cork-ERM | A Cork-ERM | A Cork-ERM | | | | | |
| Analyses Date | 6/14/2007 | | 6/7/2007 | 6/7/2007 | 6/7/2007 | | | | | |
| Parameters | Permitted Final Limits | | RECORD ACTUAL RESULTS OF ANALYSIS - DO NOT AVERAGE | | | Sample Type | Sample Analytical Method | | | |
| | Daily Max | Monthly Avg | * | 0.061714 | - | - | 24-Hr Est | Direct Measurement | All 8 Recovery Wells Were Operational | |
| Flow (mgpd) | * | * | 0.061714 | - | - | - | | | | |
| BOD (mg/L) | NA | NA | NA | NA | NA | NA | - | - | | |
| TSS (mg/L) | NA | NA | NA | NA | NA | NA | - | - | | |
| pH (Std. Units) | 6.0-9.0 | 6.0-9.0 | - | 7.55 | 7.52 | 7.52 | Grab | Field pH Meter | Field Measurement | |
| Fecal Coliform/100 ml | NA | NA | NA | NA | NA | NA | - | - | | |
| 1,2-dichloroethylene (mg/L) | 0.200 | 0.100 | 0.342 | - | - | - | Grab | EPA Method SW8260B | Preservation by HCL & Cool to 4°C | |
| 1,1-dichloroethylene (mg/L) | 0.008 | 0.008 | ND | - | - | - | Grab | EPA Method SW8260B | Preservation by HCL & Cool to 4°C | |
| trichloroethylene (mg/L) | 0.16 | 0.16 | 0.031 | - | - | - | Grab | EPA Method SW8260B | Preservation by HCL & Cool to 4°C | |
| v vinyl chloride (mg/L) | * | * | 0.0012 | - | - | - | Grab | EPA Method SW8260B | Preservation by HCL & Cool to 4°C | |
| Analyses Performed By: | Severn Trent Laboratories, Inc., 2417 Bond St., University Park, IL, 60466 | | | | | Signature of Analyst: |  | | | /Rich Mannz, STL |
| Report Approved By Owner: |  | | | | | /Tom Wind, Director for Global EH&S, I-R | | Date: | 7/20/2007 | |

Notes:

* = Monitoring requirement only

NA = Not applicable/not required to be analyzed

ND = Not detected above the detection limit indicated

"-" = not analyzed

J = analyte is reported an an estimated value below the method reporting limit

D = result was obtained from the analysis of a dilution

Based on MDNR Form MO 780-1307 (7-01)

STL

ANALYTICAL REPORT

Job Number: 500-4636-1

Job Description: SECO

For:
ERM Inc.
12755 Olive Blvd
Suite 110
St. Louis, MO 63141

Attention: Mr. Alan Cork



Rich Mannz
Project Manager II
rmannz@stl-inc.com
06/15/2007

Project Manager: Rich Mannz

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the STL Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Severn Trent Laboratories, Inc.

STL Chicago 2417 Bond Street, University Park, IL 60466
Tel (708) 534-5200 Fax (708) 534-5211 www.stl-inc.com



Job Narrative
500-J4636-1

I. Comments

No additional comments.

II. Receipt

All samples were received in good condition within temperature requirements.

III. GC/MS VOA

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERM Inc.

Job Number: 500-4636-1

| Lab Sample ID Analyte | Client Sample ID STRIPPER TOWER DISCHARGE | Result / Qualifier | Reporting Limit | Units | Method |
|--------------------------|--|--------------------|--------------------|-------|--------|
| cis-1,2-Dichloroethene | 340 | 10 | ug/L | 8260B | |
| trans-1,2-Dichloroethene | 2.0 | 1.0 | ug/L | 8260B | |
| Trichloroethene | 31 | 1.0 | ug/L | 8260B | |
| Vinyl chloride | 1.2 | 1.0 | ug/L | 8260B | |

METHOD SUMMARY

Client: ERM Inc.

Job Number: 500-4636-1

| Description | Lab Location | Method | Preparation Method |
|---|--------------------|----------------------------|--------------------|
| Matrix: Water | | | |
| Volatile Organic Compounds by GC/MS Purge-and-Trap | STL CHI STL CHI | SW846 8260B SW846 5030B | |

LAB REFERENCES:

STL CHI = STL Chicago

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986
And Its Updates.

STL Chicago

METHOD / ANALYST SUMMARY

Client: ERM Inc.

Job Number: 500-4636-1

| Method | Analyst | Analyst ID |
|-------------|----------------|------------|
| SW846 8260B | Drabek, Dave J | DJD |

SAMPLE SUMMARY

Client: ERM Inc.

Job Number: 500-4636-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|----------------------|-----------------------------|----------------------|--------------------------|---------------------------|
| 500-4636-1 | STRIPPER TOWER DISCHARGE | Water | 06/07/2007 1357 | 06/08/2007 0930 |

SAMPLE RESULTS

Mr. Alan Cork
 ERM Inc.
 12755 Olive Blvd
 Suite 110
 St. Louis, MO 63141

Job Number: 500-4636-1

Client Sample ID: STRIPPER TOWER DISCHARGE
Lab Sample ID: 500-4636-1

Date Sampled: 06/07/2007 1357
 Date Received: 06/08/2007 0930
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-----------------------------|------------------|-----------------|------|-----|----------|
| Method: 8260B | Date Analyzed: | 06/14/2007 1004 | | | |
| Prep Method: 5030B | Date Prepared: | 06/14/2007 1004 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 0.33 | 1.0 | 1.0 |
| 1,1,1-Trichloroethane | ND | ug/L | 0.17 | 1.0 | 1.0 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 0.34 | 1.0 | 1.0 |
| 1,1,2-Trichloroethane | ND | ug/L | 0.24 | 1.0 | 1.0 |
| 1,1-Dichloroethane | ND | ug/L | 0.15 | 1.0 | 1.0 |
| 1,1-Dichloroethene | ND | ug/L | 0.25 | 1.0 | 1.0 |
| 1,1-Dichloropropene | ND | ug/L | 0.38 | 1.0 | 1.0 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 0.43 | 1.0 | 1.0 |
| 1,2,3-Trichloropropane | ND | ug/L | 0.35 | 1.0 | 1.0 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 0.36 | 1.0 | 1.0 |
| 1,2,4-Trimethylbenzene | ND | ug/L | 0.26 | 1.0 | 1.0 |
| 1,2-Dichloroethane | ND * | ug/L | 0.25 | 1.0 | 1.0 |
| 1,2-Dichlorobenzene | ND | ug/L | 0.29 | 1.0 | 1.0 |
| 1,2-Dichloropropane | ND | ug/L | 0.19 | 1.0 | 1.0 |
| 1,3,5-Trimethylbenzene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| 1,3-Dichlorobenzene | ND | ug/L | 0.21 | 1.0 | 1.0 |
| 1,3-Dichloropropane | ND | ug/L | 0.22 | 1.0 | 1.0 |
| 1,4-Dichlorobenzene | ND | ug/L | 0.25 | 1.0 | 1.0 |
| 2,2-Dichloropropane | ND | ug/L | 0.17 | 1.0 | 1.0 |
| 2-Hexanone | ND | ug/L | 0.99 | 5.0 | 1.0 |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 0.92 | 5.0 | 1.0 |
| Acetone | ND | ug/L | 1.4 | 5.0 | 1.0 |
| Benzene | ND | ug/L | 0.23 | 1.0 | 1.0 |
| Bromobenzene | ND | ug/L | 0.22 | 1.0 | 1.0 |
| Bromochloromethane | ND | ug/L | 0.27 | 1.0 | 1.0 |
| Bromodichloromethane | ND | ug/L | 0.22 | 1.0 | 1.0 |
| Bromomethane | ND | ug/L | 0.59 | 1.0 | 1.0 |
| Bromoform | ND | ug/L | 0.32 | 1.0 | 1.0 |
| n-Butylbenzene | ND | ug/L | 0.35 | 1.0 | 1.0 |
| cis-1,3-Dichloropropene | ND | ug/L | 0.15 | 1.0 | 1.0 |
| Carbon disulfide | ND | ug/L | 0.15 | 5.0 | 1.0 |
| Carbon tetrachloride | ND | ug/L | 0.34 | 1.0 | 1.0 |
| Chlorobenzene | ND | ug/L | 0.15 | 1.0 | 1.0 |
| Chloroethane | ND | ug/L | 0.32 | 1.0 | 1.0 |
| Chloroform | ND | ug/L | 0.14 | 1.0 | 1.0 |
| Chloromethane | ND | ug/L | 0.20 | 1.0 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 0.41 | 1.0 | 1.0 |
| Dibromochloromethane | ND | ug/L | 0.22 | 1.0 | 1.0 |
| Dibromomethane | ND | ug/L | 0.21 | 1.0 | 1.0 |
| Dichlorodifluoromethane | ND | ug/L | 0.12 | 1.0 | 1.0 |

Mr. Alan Cork
 ERM Inc.
 12755 Olive Blvd
 Suite 110
 St. Louis, MO 63141

Job Number: 500-4636-1

Client Sample ID: STRIPPER TOWER DISCHARGE
Lab Sample ID: 500-4636-1

Date Sampled: 06/07/2007 1357
 Date Received: 06/08/2007 0930
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|---------------------------|------------------|-----------------|------|-----|----------|
| Method: 8260B | Date Analyzed: | 06/14/2007 1004 | | | |
| Prep Method: 5030B | Date Prepared: | 06/14/2007 1004 | | | |
| 1,2-Dibromoethane | ND | ug/L | 0.33 | 1.0 | 1.0 |
| Ethylbenzene | ND | ug/L | 0.21 | 1.0 | 1.0 |
| Hexachlorobutadiene | ND | ug/L | 0.36 | 1.0 | 1.0 |
| Isopropylbenzene | ND | ug/L | 0.20 | 1.0 | 1.0 |
| p-Isopropyltoluene | ND | ug/L | 0.29 | 1.0 | 1.0 |
| 2-Butanone (MEK) | ND | ug/L | 1.0 | 5.0 | 1.0 |
| Methylene Chloride | ND | ug/L | 0.24 | 1.0 | 1.0 |
| m&p-Xylene | ND | ug/L | 0.36 | 2.0 | 1.0 |
| Methyl tert-butyl ether | ND | ug/L | 0.21 | 1.0 | 1.0 |
| Naphthalene | ND | ug/L | 0.37 | 1.0 | 1.0 |
| 2-Chlorotoluene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| o-Xylene | ND | ug/L | 0.19 | 1.0 | 1.0 |
| Tetrachloroethene | ND * | ug/L | 0.18 | 1.0 | 1.0 |
| 4-Chlorotoluene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| N-Propylbenzene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| sec-Butylbenzene | ND | ug/L | 0.19 | 1.0 | 1.0 |
| Styrene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| trans-1,2-Dichloroethene | 2.0 | ug/L | 0.29 | 1.0 | 1.0 |
| trans-1,3-Dichloropropene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| tert-Butylbenzene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| Trichloroethene | 31 | ug/L | 0.13 | 1.0 | 1.0 |
| Trichlorofluoromethane | ND | ug/L | 0.14 | 1.0 | 1.0 |
| Toluene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| Vinyl chloride | 1.2 | ug/L | 0.16 | 1.0 | 1.0 |

| Surrogate | | Acceptance Limits |
|------------------------------|-----|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 112 | % 70 - 125 |
| Toluene-d8 (Surr) | 100 | % 75 - 120 |
| 4-Bromofluorobenzene (Surr) | 108 | % 75 - 120 |
| Dibromofluoromethane | 102 | % 75 - 120 |

| | | |
|-----------------------------------|----------------|-----------------|
| Method: 8260B Run Type: DL | Date Analyzed: | 06/14/2007 1027 |
| Prep Method: 5030B | Date Prepared: | 06/14/2007 1027 |
| cis-1,2-Dichloroethene | 340 | ug/L 2.0 10 10 |

| Surrogate | | Acceptance Limits |
|------------------------------|-----|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 117 | % 70 - 125 |
| Toluene-d8 (Surr) | 101 | % 75 - 120 |
| 4-Bromofluorobenzene (Surr) | 104 | % 75 - 120 |
| Dibromofluoromethane | 98 | % 75 - 120 |

Mr. Alan Cork
ERM Inc.
12755 Olive Blvd
Suite 110
St. Louis, MO 63141

Job Number: 500-4636-1

Client Sample ID: STRIPPER TOWER DISCHARGE
Lab Sample ID: 500-4636-1

Date Sampled: 06/07/2007 1357
Date Received: 06/08/2007 0930
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|----------------------------|------------------|-----------------|-----|----|----------|
| Method: 8260B Run Type: DL | Date Analyzed: | 06/14/2007 1027 | | | |
| Prep Method: 5030B | Date Prepared: | 06/14/2007 1027 | | | |

DATA REPORTING QUALIFIERS

Client: ERM Inc.

Job Number: 500-4636-1

| Lab Section | Qualifier | Description |
|-------------|-----------|--|
| GC/MS VOA | * | LCS or LCSD exceeds the control limits |
| | * | RPD of the LCS and LCSD exceeds the control limits |

QUALITY CONTROL RESULTS

Quality Control Results

Client: ERM Inc.

Job Number: 500-4636-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---------------------------------|-----------------------------|--------------|---------------|--------|------------|
| GC/MS VOA | | | | | |
| Analysis Batch:500-16894 | | | | | |
| LCS 500-16894/4 | Lab Control Spike | T | Water | 8260B | |
| LCSD 500-16894/5 | Lab Control Spike Duplicate | T | Water | 8260B | |
| MB 500-16894/3 | Method Blank | T | Water | 8260B | |
| 500-4636-1 | STRIPPER TOWER DISCHARGE | T | Water | 8260B | |
| 500-4636-1DL | STRIPPER TOWER DISCHARGE | T | Water | 8260B | |

Report Basis

T = Total

Quality Control Results

Client: ERM Inc.

Job Number: 500-4636-1

Surrogate Recovery Report

8260B Volatile Organic Compounds by GC/MS

Client Matrix: Water

| Lab Sample ID | Client Sample ID | (BFB) (%Rec) | (DCE) (%Rec) | (DFM) (%Rec) | (TOL) (%Rec) |
|------------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|
| 500-4636-1 | STRIPPER TOWER DISCHARGE | 108 | 112 | 102 | 100 |
| 500-4636-1 DL | STRIPPER TOWER DISCHARGE | 104 | 117 | 98 | 101 |
| LCS 500-16894/4 | | 107 | 118 | 99 | 104 |
| LCSD 500-16894/5 | | 100 | 120 | 107 | 101 |
| MB 500-16894/3 | | 104 | 121 | 100 | 104 |

| Surrogate | Acceptance Limits |
|-----------|------------------------------|
| (BFB) | 4-Bromofluorobenzene (Surr) |
| (DCE) | 1,2-Dichloroethane-d4 (Surr) |
| (DFM) | Dibromofluoromethane |
| (TOL) | Toluene-d8 (Surr) |

Quality Control Results

Client: ERM Inc.

Job Number: 500-4636-1

Method Blank - Batch: 500-16894

Lab Sample ID: MB 500-16894/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/14/2007 0914
Date Prepared: 06/14/2007 0914

Analysis Batch: 500-16894
Prep Batch: N/A
Units: ug/L

Method: 8260B
Preparation: 5030B

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 2M0614.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Result | Qual | MDL | RL |
|-----------------------------|--------|------|------|-----|
| 1,1,1,2-Tetrachloroethane | ND | | 0.33 | 1.0 |
| 1,1,1-Trichloroethane | ND | | 0.17 | 1.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.34 | 1.0 |
| 1,1,2-Trichloroethane | ND | | 0.24 | 1.0 |
| 1,1-Dichloroethane | ND | | 0.15 | 1.0 |
| 1,1-Dichloroethene | ND | | 0.25 | 1.0 |
| 1,1-Dichloropropene | ND | | 0.38 | 1.0 |
| 1,2,3-Trichlorobenzene | ND | | 0.43 | 1.0 |
| 1,2,3-Trichloropropane | ND | | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | ND | | 0.36 | 1.0 |
| 1,2,4-Trimethylbenzene | ND | | 0.26 | 1.0 |
| 1,2-Dichloroethane | ND | | 0.25 | 1.0 |
| 1,2-Dichlorobenzene | ND | | 0.29 | 1.0 |
| 1,2-Dichloropropane | ND | | 0.19 | 1.0 |
| 1,3,5-Trimethylbenzene | ND | | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | ND | | 0.21 | 1.0 |
| 1,3-Dichloropropane | ND | | 0.22 | 1.0 |
| 1,4-Dichlorobenzene | ND | | 0.25 | 1.0 |
| 2,2-Dichloropropane | ND | | 0.17 | 1.0 |
| 2-Hexanone | ND | | 0.99 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.92 | 5.0 |
| Acetone | ND | | 1.4 | 5.0 |
| Benzene | ND | | 0.23 | 1.0 |
| Bromobenzene | ND | | 0.22 | 1.0 |
| Bromoform | ND | | 0.27 | 1.0 |
| Bromochloromethane | ND | | 0.22 | 1.0 |
| Bromodichloromethane | ND | | 0.59 | 1.0 |
| Bromomethane | ND | | 0.32 | 1.0 |
| cis-1,2-Dichloroethene | ND | | 0.35 | 1.0 |
| cis-1,3-Dichloropropene | ND | | 0.20 | 1.0 |
| Carbon disulfide | ND | | 0.15 | 1.0 |
| Carbon tetrachloride | ND | | 0.15 | 5.0 |
| Chlorobenzene | ND | | 0.34 | 1.0 |
| Chloroethane | ND | | 0.15 | 1.0 |
| Chloroform | ND | | 0.32 | 1.0 |
| Chloromethane | ND | | 0.20 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.41 | 1.0 |
| Dibromochloromethane | ND | | 0.22 | 1.0 |
| Dibromomethane | ND | | 0.21 | 1.0 |
| Dichlorodifluoromethane | ND | | 0.12 | 1.0 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ERM Inc.

Job Number: 500-4636-1

Method Blank - Batch: 500-16894

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 500-16894/3

Analysis Batch: 500-16894

Instrument ID: Agilent 6890N GC - 5973N

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 2M0614.D

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 10 mL

Date Analyzed: 06/14/2007 0914

Final Weight/Volume: 10 mL

Date Prepared: 06/14/2007 0914

| Analyte | Result | Qual | MDL | RL |
|------------------------------|--------|------|-------------------|-----|
| 1,2-Dibromoethane | ND | | 0.33 | 1.0 |
| Ethylbenzene | ND | | 0.21 | 1.0 |
| Hexachlorobutadiene | ND | | 0.36 | 1.0 |
| Isopropylbenzene | ND | | 0.20 | 1.0 |
| p-Isopropyltoluene | ND | | 0.29 | 1.0 |
| 2-Butanone (MEK) | ND | | 1.0 | 5.0 |
| Methylene Chloride | ND | | 0.24 | 1.0 |
| m&p-Xylene | ND | | 0.36 | 2.0 |
| Methyl tert-butyl ether | ND | | 0.21 | 1.0 |
| Naphthalene | ND | | 0.37 | 1.0 |
| 2-Chlorotoluene | ND | | 0.16 | 1.0 |
| o-Xylene | ND | | 0.19 | 1.0 |
| Tetrachloroethene | ND | | 0.18 | 1.0 |
| 4-Chlorotoluene | ND | | 0.18 | 1.0 |
| N-Propylbenzene | ND | | 0.16 | 1.0 |
| sec-Butylbenzene | ND | | 0.19 | 1.0 |
| Styrene | ND | | 0.18 | 1.0 |
| trans-1,2-Dichloroethene | ND | | 0.29 | 1.0 |
| trans-1,3-Dichloropropene | ND | | 0.16 | 1.0 |
| tert-Butylbenzene | ND | | 0.16 | 1.0 |
| Trichloroethene | ND | | 0.13 | 1.0 |
| Trichlorofluoromethane | ND | | 0.14 | 1.0 |
| Toluene | ND | | 0.18 | 1.0 |
| Vinyl chloride | ND | | 0.16 | 1.0 |
| Surrogate | % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 121 | | 70 - 125 | |
| Toluene-d8 (Surr) | 104 | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | 104 | | 75 - 120 | |
| Dibromofluoromethane | 100 | | 75 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ERM Inc.

Job Number: 500-4636-1

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 500-16894**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 500-16894/4
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 06/14/2007 0937
 Date Prepared: 06/14/2007 0937

Analysis Batch: 500-16894
 Prep Batch: N/A
 Units: ug/L

Instrument ID: Agilent 6890N GC - 5973N
 Lab File ID: 2S0614.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 500-16894/5
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 06/14/2007 1939
 Date Prepared: 06/14/2007 1939

Analysis Batch: 500-16894
 Prep Batch: N/A
 Units: ug/L

Instrument ID: Agilent 6890N GC - 5973I
 Lab File ID: 2T0614.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

| Analyte | % Rec. | | RPD | RPD Limit | LCS Qual | LCSD Qual |
|-----------------------------|--------|------|----------|-----------|----------|-----------|
| | LCS | LCSD | | | | |
| 1,1,1,2-Tetrachloroethane | 109 | 99 | 72 - 120 | 10 | 20 | |
| 1,1,1-Trichloroethane | 112 | 106 | 65 - 129 | 6 | 20 | |
| 1,1,2,2-Tetrachloroethane | 92 | 83 | 68 - 120 | 10 | 20 | |
| 1,1,2-Trichloroethane | 96 | 95 | 59 - 135 | 1 | 20 | |
| 1,1-Dichloroethane | 97 | 96 | 63 - 121 | 2 | 20 | |
| 1,1-Dichloroethene | 96 | 92 | 50 - 121 | 4 | 20 | |
| 1,1-Dichloropropene | 98 | 94 | 62 - 122 | 5 | 20 | |
| 1,2,3-Trichlorobenzene | 91 | 76 | 62 - 120 | 19 | 20 | |
| 1,2,3-Trichloropropane | 91 | 94 | 70 - 120 | 3 | 20 | |
| 1,2,4-Trichlorobenzene | 94 | 78 | 63 - 120 | 18 | 20 | |
| 1,2,4-Trimethylbenzene | 101 | 93 | 76 - 120 | 8 | 20 | |
| 1,2-Dichloroethane | 124 | 113 | 68 - 120 | 9 | 20 | * |
| 1,2-Dichlorobenzene | 98 | 87 | 74 - 120 | 11 | 20 | |
| 1,2-Dichloropropane | 99 | 90 | 72 - 120 | 10 | 20 | |
| 1,3,5-Trimethylbenzene | 104 | 95 | 76 - 120 | 8 | 20 | |
| 1,3-Dichlorobenzene | 93 | 85 | 76 - 120 | 9 | 20 | |
| 1,3-Dichloropropane | 106 | 91 | 73 - 120 | 15 | 20 | |
| 1,4-Dichlorobenzene | 88 | 82 | 74 - 120 | 7 | 20 | |
| 2,2-Dichloropropane | 112 | 96 | 56 - 134 | 16 | 20 | |
| 2-Hexanone | 111 | 95 | 54 - 139 | 16 | 20 | |
| 4-Methyl-2-pentanone (MIBK) | 110 | 96 | 65 - 128 | 14 | 20 | |
| Acetone | 113 | 106 | 22 - 175 | 6 | 20 | |
| Benzene | 99 | 91 | 68 - 120 | 8 | 20 | |
| Bromobenzene | 95 | 92 | 76 - 120 | 3 | 20 | |
| Bromochloromethane | 87 | 107 | 61 - 125 | 20 | 20 | |
| Bromodichloromethane | 121 | 113 | 71 - 131 | 7 | 20 | |
| Bromomethane | 112 | 118 | 61 - 172 | 5 | 20 | |
| Bromoform | 109 | 94 | 55 - 120 | 15 | 20 | |
| n-Butylbenzene | 98 | 82 | 68 - 120 | 18 | 20 | |
| cis-1,2-Dichloroethene | 104 | 100 | 62 - 127 | 4 | 20 | |
| cis-1,3-Dichloropropene | 99 | 82 | 60 - 120 | 18 | 20 | |
| Carbon disulfide | 63 | 63 | 33 - 120 | 0 | 20 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ERM Inc.

Job Number: 500-4636-1

Lab Control Spike/ Lab Control Spike Duplicate Recovery Report - Batch: 500-16894

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 500-16894/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/14/2007 0937
Date Prepared: 06/14/2007 0937

Analysis Batch: 500-16894
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 2S0614.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 500-16894/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/14/2007 1939
Date Prepared: 06/14/2007 1939

Analysis Batch: 500-16894
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 6890N GC - 5973
Lab File ID: 2T0614.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | % Rec. | | | | | | |
|-----------------------------|--------|------|----------|-----|-----------|----------|-----------|
| | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Carbon tetrachloride | 119 | 104 | 67 - 121 | 13 | 20 | | |
| Chlorobenzene | 104 | 89 | 75 - 120 | 15 | 20 | | |
| Chloroethane | 99 | 101 | 56 - 152 | 2 | 20 | | |
| Chloroform | 105 | 106 | 65 - 127 | 1 | 20 | | |
| Chloromethane | 94 | 99 | 50 - 140 | 6 | 20 | | |
| 1,2-Dibromo-3-Chloropropane | 102 | 94 | 60 - 120 | 8 | 20 | | |
| Dibromochloromethane | 115 | 98 | 57 - 132 | 17 | 20 | | |
| Dibromomethane | 115 | 100 | 71 - 120 | 14 | 20 | | |
| Dichlorodifluoromethane | 116 | 114 | 21 - 178 | 2 | 20 | | |
| 1,2-Dibromoethane | 106 | 95 | 68 - 125 | 11 | 20 | | |
| Ethylbenzene | 107 | 92 | 75 - 120 | 15 | 20 | | |
| Hexachlorobutadiene | 99 | 84 | 54 - 131 | 16 | 20 | | |
| Isopropylbenzene | 89 | 83 | 68 - 120 | 6 | 20 | | |
| p-Isopropyltoluene | 95 | 81 | 71 - 120 | 15 | 20 | | |
| 2-Butanone (MEK) | 100 | 96 | 36 - 157 | 5 | 20 | | |
| Methylene Chloride | 97 | 91 | 52 - 126 | 7 | 20 | | |
| m&p-Xylene | 106 | 92 | 75 - 120 | 14 | 20 | | |
| Methyl tert-butyl ether | 96 | 114 | 54 - 140 | 17 | 20 | | |
| Naphthalene | 88 | 79 | 50 - 120 | 10 | 20 | | |
| 2-Chlorotoluene | 102 | 97 | 74 - 120 | 4 | 20 | | |
| o-Xylene | 106 | 93 | 75 - 120 | 13 | 20 | | |
| Tetrachloroethene | 107 | 86 | 65 - 120 | 21 | 20 | * | |
| 4-Chlorotoluene | 97 | 92 | 75 - 120 | 5 | 20 | | |
| N-Propylbenzene | 97 | 93 | 74 - 120 | 4 | 20 | | |
| sec-Butylbenzene | 96 | 88 | 73 - 120 | 9 | 20 | | |
| Styrene | 103 | 87 | 77 - 120 | 17 | 20 | | |
| trans-1,2-Dichloroethene | 101 | 95 | 57 - 122 | 6 | 20 | | |
| trans-1,3-Dichloropropene | 107 | 94 | 61 - 120 | 13 | 20 | | |
| tert-Butylbenzene | 98 | 90 | 75 - 120 | 8 | 20 | | |
| Trichloroethene | 110 | 94 | 73 - 120 | 16 | 20 | | |
| Trichlorofluoromethane | 104 | 102 | 58 - 147 | 2 | 20 | | |
| Toluene | 106 | 94 | 75 - 120 | 12 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ERM Inc.

Job Number: 500-4636-1

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 500-16894**

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 500-16894/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/14/2007 0937
Date Prepared: 06/14/2007 0937

Analysis Batch: 500-16894
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 2S0614.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 500-16894/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/14/2007 1939
Date Prepared: 06/14/2007 1939

Analysis Batch: 500-16894
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 6890N GC - 5973I
Lab File ID: 2T0614.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | % Rec. | | RPD | RPD Limit | LCS Qual | LCSD Qual |
|------------------------------|-----------|------|------------|-----------|-------------------|-----------|
| | LCS | LCSD | | | | |
| Vinyl chloride | 97 | 97 | 57 - 135 | 0 | 20 | |
| <hr/> | | | | | | |
| Surrogate | LCS % Rec | | LCSD % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 118 | | 120 | | 70 - 125 | |
| Toluene-d8 (Surr) | 104 | | 101 | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | 107 | | 100 | | 75 - 120 | |
| Dibromofluoromethane | 99 | | 107 | | 75 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

**SEVERN
TRENT** **STL**

STL Chicago
2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

RELINQUISHED BY John COMPANY ERN DATE 6/7/07 TIME 1535
RELINQUISHED BY Angela Brown STC COMPANY STC DATE 6-7-07 TIME 16:00

RECEIVED BY *John D. Foy* COMPANY *SJL* DATE *08-07-07 1535*
RECEIVED BY *Jeff Faust SJL* COMPANY *SJL* DATE *08-07 0950*

Matrix Key

| | |
|--------------------|------------------|
| WW = Wastewater | SE = Sediment |
| W = Water | SO = Solid |
| S = Soil | DS = Drum Solid |
| SL = Sludge | DL = Drum Liquid |
| MS = Miscellaneous | L = Leachate |
| CL = Oil | WI = Wipe |
| A = Air | O = |

Container Keys

- | | |
|---------------------|------------------------|
| 1. Plastic | 1. HCl, Cool to 4° |
| 2. VOA Vial | 2. H2SO4, Cool to 4° |
| 3. Sterile Plastic | 3. HNO3, Cool to 4° |
| 4. Amber Glass | 4. NaOH, Cool to 4° |
| 5. Widermouth Glass | 5. NaOH/Zn, Cool to 4° |
| 6. Other | 6. Cool to 4° |
| | 7. None |

COMMENTS

COMMENTS

— 2. Satisfy

SEND SAMPLES TO

Page 13 of 13 | Page 13 of 13

? manne@stlchicago

[Signature]

Digitized by srujanika@gmail.com

Date Received _____

Date Received

Courier: Hand Delivered

1

Bill of Lading

Journal of Health Politics, Policy and Law, Vol. 35, No. 4, December 2010
DOI 10.1215/03616878-35-4 © 2010 by The University of Chicago

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERM Inc.

Job Number: 500-4636-1

Login Number: 4636

| Question | T/F/NA | Comment |
|--|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 3.0 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |

Attachment 3

2nd Quarter 2007 DMR

June 18, 2007 Sample Event

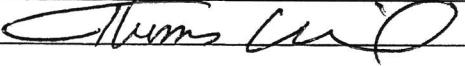
MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY

SECOND QUARTER 2007 RESAMPLE (6/18/07)

NPDES MONITORING REPORT FOR NON-MUNICIPAL WASTEWATER DISCHARGES

INSTRUCTIONS:

1. Mail completed report to the MDNR St. Louis Regional Office, 7545 South Lindbergh, Suite 210, St. Louis, MO 63125
2. Report must be signed by the owner and by the analyst. Report should be typed or neatly printed.
3. Part A of the permit specifies the parameters to be monitored, frequency of monitoring and frequency of reporting results. If quarterly reports are required, they are due on April 28, July 28, October 28, and January 28, each report covering the 3-month period not including the reporting month. See the permit for reporting dates other than quarterly.
4. Report results of all analyses, even if performed more frequently than required by Part A of the permit.
5. File a report even if discharge is intermittent and no discharge occurred during the monitoring period. Complete the identification section, write "ND" in the appropriate columns for the dates the facility was checked, and sign the report. NOTE: If a discharge occurs at any time during the monitoring period, it must be reported.
6. Under "Sample Type" indicate whether sample analyzed was: (a) grab sample; (b) 24-hour composite sample; or (c) modified composite sample. NOTE: See permit for type of sample required for each parameter.
7. Under "Sample Type" for flow indicate whether figures shown are based on (a) instantaneous measurements or (b) actual 24-hour measured flow. Figure recorded is to represent the total 24-hour flow for the data shown or a reasonable estimate.
8. Indicate whether samples were collected by owner or by personnel of the lab performing the analyses.

| Facility Name: | Former SECO Products Facility Site | | Permit Number: | MO-0129313 | | County: | Franklin | Owner: | Hussmann | Facility Type: | GW Remediation Systm |
|-----------------------------------|---|-------------|--|------------|------|---------------|--|---|---------------------------------------|--|----------------------|
| Required Frequency of Monitoring: | Quarterly | | This Report Covers the Period: | | | April 1, 2007 | | through | | June 30, 2007 | |
| Dates Sampled | 6/18/2007 | | 6/18/2007 | 6/18/2007 | | 6/18/2007 | | | | REMARKS & COMMENTS (Record, as appropriate, such information as method of preservation, methods of sample collection, abnormal age of sample, explanation of unusual results, etc.) | |
| Time Sampled | 1415 | | 1410 | 1408 | | 1405 | | | | | |
| Sample Collected By | A Cork-ERM | | A Cork-ERM | A Cork-ERM | | A Cork-ERM | | | | | |
| Analyses Date | 6/23/2007 | | 6/18/2007 | 6/18/2007 | | 6/18/2007 | | | | | |
| Parameters | Permitted Final Limits | | RECORD ACTUAL RESULTS OF ANALYSIS-DO NOT AVERAGE | | | | Sample Type | Sample Analytical Method | | | |
| | Daily Max | Monthly Avg | | | | | | | | | |
| Flow (mgpd) | * | * | 0.0432 | - | - | - | 24-Hr Est | Direct Measurement | All 8 Recovery Wells Were Operational | | |
| BOD (mg/L) | NA | NA | NA | NA | NA | NA | - | - | | | |
| TSS (mg/L) | NA | NA | NA | NA | NA | NA | - | - | | | |
| pH (Std. Units) | 6.0-9.0 | 6.0-9.0 | - | 7.81 | 7.81 | 7.73 | Grab | Field pH Meter | Field Measurement | | |
| Fecal Coliform/100 ml | NA | NA | NA | NA | NA | NA | - | - | | | |
| 1,2-dichloroethylene (mg/L) | 0.200 | 0.100 | 0.5134 | - | - | - | Grab | EPA Method SW8260B | Preservation by HCL & Cool to 4°C | | |
| 1,1-dichloroethylene (mg/L) | 0.008 | 0.008 | ND | - | - | - | Grab | EPA Method SW8260B | Preservation by HCL & Cool to 4°C | | |
| trichloroethylene (mg/L) | 0.16 | 0.16 | 0.088 | - | - | - | Grab | EPA Method SW8260B | Preservation by HCL & Cool to 4°C | | |
| vinyl chloride (mg/L) | * | * | 0.0024 | - | - | - | Grab | EPA Method SW8260B | Preservation by HCL & Cool to 4°C | | |
| Analyses Performed By: | Severn Trent Laboratories, Inc., 2417 Bond St., University Park, IL, 60466 | | | | | | Signature of Analyst: |  | | | /Rich Mannz, STL |
| Report Approved By Owner: |  | | | | | | /Tom Wind, Director for Global EH&S, I-R | | | Date: | 7/26/2007 |

Notes:

* = Monitoring requirement only

NA = Not applicable/not required to be analyzed

ND = Not detected above the detection limit indicated

"-" = not analyzed

J = analyte is reported as an estimated value below the method reporting limit

D = result was obtained from the analysis of a dilution

Based on MDNR Form MO 780-1307 (7-01)

STL

ANALYTICAL REPORT

Job Number: 500-4840-1

Job Description: SECO

For:
ERM Inc.
12755 Olive Blvd
Suite 110
St. Louis, MO 63141

Attention: Mr. Alan Cork



Rich Mannz
Project Manager II
rmannz@stl-inc.com
06/26/2007

Project Manager: Rich Mannz

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the STL Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Severn Trent Laboratories, Inc.
STL Chicago 2417 Bond Street, University Park, IL 60466
Tel (708) 534-5200 Fax (708) 534-5211 www.stl-inc.com



Job Narrative
500-J4840-1

I. Comments

No additional comments.

II. Receipt

All samples were received in good condition within temperature requirements.

III. GC/MS VOA

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERM Inc.

Job Number: 500-4840-1

| Lab Sample ID Analyte | Client Sample ID STRIPPER TOWER DISCHARGE | Result / Qualifier | Reporting Limit | Units | Method |
|--------------------------|--|--------------------|--------------------|-------|--------|
| cis-1,2-Dichloroethene | 510 | | 10 | ug/L | 8260B |
| trans-1,2-Dichloroethene | 3.4 | | 1.0 | ug/L | 8260B |
| Trichloroethene | 88 | | 1.0 | ug/L | 8260B |
| Vinyl chloride | 2.4 | * | 1.0 | ug/L | 8260B |

METHOD SUMMARY

Client: ERM Inc.

Job Number: 500-4840-1

| Description | Lab Location | Method | Preparation Method |
|---|--------------------|----------------------------|--------------------|
| Matrix: Water | | | |
| Volatile Organic Compounds by GC/MS Purge-and-Trap | STL CHI STL CHI | SW846 8260B SW846 5030B | |

LAB REFERENCES:

STL CHI = STL Chicago

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986
And Its Updates.

STL Chicago

METHOD / ANALYST SUMMARY

Client: ERM Inc.

Job Number: 500-4840-1

| Method | Analyst | Analyst ID |
|-------------|----------------|------------|
| SW846 8260B | Drabek, Dave J | DJD |

SAMPLE SUMMARY

Client: ERM Inc.

Job Number: 500-4840-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|-----------------------------|---------------|-------------------|--------------------|
| 500-4840-1 | STRIPPER TOWER DISCHARGE | Water | 06/18/2007 1415 | 06/20/2007 0945 |

SAMPLE RESULTS

Mr. Alan Cork
 ERM Inc.
 12755 Olive Blvd
 Suite 110
 St. Louis, MO 63141

Job Number: 500-4840-1

Client Sample ID: STRIPPER TOWER DISCHARGE
Lab Sample ID: 500-4840-1

Date Sampled: 06/18/2007 1415
 Date Received: 06/20/2007 0945
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-----------------------------|------------------|-----------------|------|-----|----------|
| Method: 8260B | Date Analyzed: | 06/23/2007 1622 | | | |
| Prep Method: 5030B | Date Prepared: | 06/23/2007 1622 | | | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 0.33 | 1.0 | 1.0 |
| 1,1,1-Trichloroethane | ND | ug/L | 0.17 | 1.0 | 1.0 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 0.34 | 1.0 | 1.0 |
| 1,1,2-Trichloroethane | ND | ug/L | 0.24 | 1.0 | 1.0 |
| 1,1-Dichloroethane | ND | ug/L | 0.15 | 1.0 | 1.0 |
| 1,1-Dichloroethene | ND | ug/L | 0.25 | 1.0 | 1.0 |
| 1,1-Dichloropropene | ND | ug/L | 0.38 | 1.0 | 1.0 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 0.43 | 1.0 | 1.0 |
| 1,2,3-Trichloropropane | ND | ug/L | 0.35 | 1.0 | 1.0 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 0.36 | 1.0 | 1.0 |
| 1,2,4-Trimethylbenzene | ND | ug/L | 0.26 | 1.0 | 1.0 |
| 1,2-Dichloroethane | ND * | ug/L | 0.25 | 1.0 | 1.0 |
| 1,2-Dichlorobenzene | ND | ug/L | 0.29 | 1.0 | 1.0 |
| 1,2-Dichloropropane | ND | ug/L | 0.19 | 1.0 | 1.0 |
| 1,3,5-Trimethylbenzene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| 1,3-Dichlorobenzene | ND | ug/L | 0.21 | 1.0 | 1.0 |
| 1,3-Dichloropropane | ND | ug/L | 0.22 | 1.0 | 1.0 |
| 1,4-Dichlorobenzene | ND | ug/L | 0.25 | 1.0 | 1.0 |
| 2,2-Dichloropropane | ND | ug/L | 0.17 | 1.0 | 1.0 |
| 2-Hexanone | ND | ug/L | 0.99 | 5.0 | 1.0 |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 0.92 | 5.0 | 1.0 |
| Acetone | ND | ug/L | 1.4 | 5.0 | 1.0 |
| Benzene | ND | ug/L | 0.23 | 1.0 | 1.0 |
| Bromobenzene | ND | ug/L | 0.22 | 1.0 | 1.0 |
| Bromoform | ND | ug/L | 0.27 | 1.0 | 1.0 |
| Bromochloromethane | ND | ug/L | 0.22 | 1.0 | 1.0 |
| Bromomethane | ND | ug/L | 0.59 | 1.0 | 1.0 |
| Carbon disulfide | ND | ug/L | 0.32 | 1.0 | 1.0 |
| Carbon tetrachloride | ND | ug/L | 0.35 | 1.0 | 1.0 |
| Chlorobenzene | ND | ug/L | 0.15 | 1.0 | 1.0 |
| Chloroethane | ND | ug/L | 0.32 | 1.0 | 1.0 |
| Chloroform | ND | ug/L | 0.14 | 1.0 | 1.0 |
| Chloromethane | ND * | ug/L | 0.20 | 1.0 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 0.41 | 1.0 | 1.0 |
| Dibromochloromethane | ND | ug/L | 0.22 | 1.0 | 1.0 |
| Dibromomethane | ND | ug/L | 0.21 | 1.0 | 1.0 |
| Dichlorodifluoromethane | ND | ug/L | 0.12 | 1.0 | 1.0 |

Mr. Alan Cork
 ERM Inc.
 12755 Olive Blvd
 Suite 110
 St. Louis, MO 63141

Job Number: 500-4840-1

Client Sample ID: STRIPPER TOWER DISCHARGE
Lab Sample ID: 500-4840-1

Date Sampled: 06/18/2007 1415
 Date Received: 06/20/2007 0945
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|---------------------------|------------------|-----------------|------|------|----------|
| Method: 8260B | Date Analyzed: | 06/23/2007 1622 | | | |
| Prep Method: 5030B | Date Prepared: | 06/23/2007 1622 | | | |
| 1,2-Dibromoethane | ND | ug/L | 0.33 | 1.0 | 1.0 |
| Ethylbenzene | ND | ug/L | 0.21 | 1.0 | 1.0 |
| Hexachlorobutadiene | ND | ug/L | 0.36 | 1.0 | 1.0 |
| Isopropylbenzene | ND | ug/L | 0.20 | 1.0 | 1.0 |
| p-Isopropyltoluene | ND | ug/L | 0.29 | 1.0 | 1.0 |
| 2-Butanone (MEK) | ND | ug/L | 1.0 | 5.0 | 1.0 |
| Methylene Chloride | ND | ug/L | 0.24 | 1.0 | 1.0 |
| m&p-Xylene | ND | ug/L | 0.36 | 2.0 | 1.0 |
| Methyl tert-butyl ether | ND | ug/L | 0.21 | 1.0 | 1.0 |
| Naphthalene | ND | ug/L | 0.37 | 1.0 | 1.0 |
| 2-Chlorotoluene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| o-Xylene | ND | ug/L | 0.19 | 1.0 | 1.0 |
| Tetrachloroethene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| 4-Chlorotoluene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| N-Propylbenzene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| sec-Butylbenzene | ND | ug/L | 0.19 | 1.0 | 1.0 |
| Styrene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| trans-1,2-Dichloroethene | 3.4 | ug/L | 0.29 | 1.0 | 1.0 |
| trans-1,3-Dichloropropene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| tert-Butylbenzene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| Trichloroethene | 88 | ug/L | 0.13 | 1.0 | 1.0 |
| Trichlorofluoromethane | ND | ug/L | 0.14 | 1.0 | 1.0 |
| Toluene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| Vinyl chloride | 2.4 | * | ug/L | 0.16 | 1.0 |

| Surrogate | Acceptance Limits | | |
|------------------------------|-------------------|---|----------|
| 1,2-Dichloroethane-d4 (Surr) | 113 | % | 70 - 125 |
| Toluene-d8 (Surr) | 98 | % | 75 - 120 |
| 4-Bromofluorobenzene (Surr) | 99 | % | 75 - 120 |
| Dibromofluoromethane | 111 | % | 75 - 120 |

| | | | | | |
|-----------------------------------|----------------|-----------------|-----|----|----|
| Method: 8260B Run Type: DL | Date Analyzed: | 06/23/2007 1645 | | | |
| Prep Method: 5030B | Date Prepared: | 06/23/2007 1645 | | | |
| cis-1,2-Dichloroethene | 510 | ug/L | 2.0 | 10 | 10 |

| Surrogate | Acceptance Limits | | |
|------------------------------|-------------------|---|----------|
| 1,2-Dichloroethane-d4 (Surr) | 112 | % | 70 - 125 |
| Toluene-d8 (Surr) | 98 | % | 75 - 120 |
| 4-Bromofluorobenzene (Surr) | 95 | % | 75 - 120 |
| Dibromofluoromethane | 110 | % | 75 - 120 |

Mr. Alan Cork
ERM Inc.
12755 Olive Blvd
Suite 110
St. Louis, MO 63141

Job Number: 500-4840-1

Client Sample ID: STRIPPER TOWER DISCHARGE
Lab Sample ID: 500-4840-1

Date Sampled: 06/18/2007 1415
Date Received: 06/20/2007 0945
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|----------------------------|------------------|-----------------|-----|----|----------|
| Method: 8260B Run Type: DL | Date Analyzed: | 06/23/2007 1645 | | | |
| Prep Method: 5030B | Date Prepared: | 06/23/2007 1645 | | | |

DATA REPORTING QUALIFIERS

Client: ERM Inc.

Job Number: 500-4840-1

| Lab Section | Qualifier | Description |
|-------------|-----------|--|
| GC/MS VOA | * | LCS or LCSD exceeds the control limits |

QUALITY CONTROL RESULTS

Quality Control Results

Client: ERM Inc.

Job Number: 500-4840-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---------------------------------|--------------------------|--------------|---------------|--------|------------|
| GC/MS VOA | | | | | |
| Analysis Batch:500-17450 | | | | | |
| LCS 500-17450/5 | Lab Control Spike | T | Water | 8260B | |
| MB 500-17450/4 | Method Blank | T | Water | 8260B | |
| 500-4840-1 | STRIPPER TOWER DISCHARGE | T | Water | 8260B | |
| 500-4840-1DL | STRIPPER TOWER DISCHARGE | T | Water | 8260B | |

Report Basis

T = Total

Quality Control Results

Client: ERM Inc.

Job Number: 500-4840-1

Surrogate Recovery Report

8260B Volatile Organic Compounds by GC/MS

Client Matrix: Water

| Lab Sample ID | Client Sample ID | (BFB) (%Rec) | (DCE) (%Rec) | (DFM) (%Rec) | (TOL) (%Rec) |
|-----------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|
| 500-4840-1 | STRIPPER TOWER DISCHARGE | 99 | 113 | 111 | 98 |
| 500-4840-1 DL | STRIPPER TOWER DISCHARGE | 95 | 112 | 110 | 98 |
| LCS 500-17450/5 | | 100 | 108 | 106 | 97 |
| MB 500-17450/4 | | 100 | 106 | 106 | 97 |

| Surrogate | Acceptance Limits |
|------------------------------------|-------------------|
| (BFB) 4-Bromofluorobenzene (Surr) | 75 - 120 |
| (DCE) 1,2-Dichloroethane-d4 (Surr) | 70 - 125 |
| (DFM) Dibromofluoromethane | 75 - 120 |
| (TOL) Toluene-d8 (Surr) | 75 - 120 |

Quality Control Results

Client: ERM Inc.

Job Number: 500-4840-1

Method Blank - Batch: 500-17450

Lab Sample ID: MB 500-17450/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/23/2007 0821
Date Prepared: 06/23/2007 0821

Analysis Batch: 500-17450
Prep Batch: N/A
Units: ug/L

Method: 8260B
Preparation: 5030B

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 2M0623.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Result | Qual | MDL | RL |
|-----------------------------|--------|------|------|-----|
| 1,1,1,2-Tetrachloroethane | ND | | 0.33 | 1.0 |
| 1,1,1-Trichloroethane | ND | | 0.17 | 1.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.34 | 1.0 |
| 1,1,2-Trichloroethane | ND | | 0.24 | 1.0 |
| 1,1-Dichloroethane | ND | | 0.15 | 1.0 |
| 1,1-Dichloroethene | ND | | 0.25 | 1.0 |
| 1,1-Dichloropropene | ND | | 0.38 | 1.0 |
| 1,2,3-Trichlorobenzene | ND | | 0.43 | 1.0 |
| 1,2,3-Trichloropropane | ND | | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | ND | | 0.36 | 1.0 |
| 1,2,4-Trimethylbenzene | ND | | 0.26 | 1.0 |
| 1,2-Dichloroethane | ND | | 0.25 | 1.0 |
| 1,2-Dichlorobenzene | ND | | 0.29 | 1.0 |
| 1,2-Dichloropropane | ND | | 0.19 | 1.0 |
| 1,3,5-Trimethylbenzene | ND | | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | ND | | 0.21 | 1.0 |
| 1,3-Dichloropropane | ND | | 0.22 | 1.0 |
| 1,4-Dichlorobenzene | ND | | 0.25 | 1.0 |
| 2,2-Dichloropropane | ND | | 0.17 | 1.0 |
| 2-Hexanone | ND | | 0.99 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.92 | 5.0 |
| Acetone | ND | | 1.4 | 5.0 |
| Benzene | ND | | 0.23 | 1.0 |
| Bromobenzene | ND | | 0.22 | 1.0 |
| Bromochloromethane | ND | | 0.27 | 1.0 |
| Bromodichloromethane | ND | | 0.22 | 1.0 |
| Bromomethane | ND | | 0.59 | 1.0 |
| Bromoform | ND | | 0.32 | 1.0 |
| n-Butylbenzene | ND | | 0.35 | 1.0 |
| cis-1,2-Dichloroethene | ND | | 0.20 | 1.0 |
| cis-1,3-Dichloropropene | ND | | 0.15 | 1.0 |
| Carbon disulfide | ND | | 0.15 | 5.0 |
| Carbon tetrachloride | ND | | 0.34 | 1.0 |
| Chlorobenzene | ND | | 0.15 | 1.0 |
| Chloroethane | ND | | 0.32 | 1.0 |
| Chloroform | ND | | 0.14 | 1.0 |
| Chloromethane | ND | | 0.20 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.41 | 1.0 |
| Dibromochloromethane | ND | | 0.22 | 1.0 |
| Dibromomethane | ND | | 0.21 | 1.0 |
| Dichlorodifluoromethane | ND | | 0.12 | 1.0 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ERM Inc.

Job Number: 500-4840-1

Method Blank - Batch: 500-17450

Lab Sample ID: MB 500-17450/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/23/2007 0821
Date Prepared: 06/23/2007 0821

Analysis Batch: 500-17450
Prep Batch: N/A
Units: ug/L

Method: 8260B
Preparation: 5030B

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 2M0623.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Result | Qual | MDL | RL |
|------------------------------|--------|------|-------------------|-----|
| 1,2-Dibromoethane | ND | | 0.33 | 1.0 |
| Ethylbenzene | ND | | 0.21 | 1.0 |
| Hexachlorobutadiene | ND | | 0.36 | 1.0 |
| Isopropylbenzene | ND | | 0.20 | 1.0 |
| p-Isopropyltoluene | ND | | 0.29 | 1.0 |
| 2-Butanone (MEK) | ND | | 1.0 | 5.0 |
| Methylene Chloride | ND | | 0.24 | 1.0 |
| m&p-Xylene | ND | | 0.36 | 2.0 |
| Methyl tert-butyl ether | ND | | 0.21 | 1.0 |
| Naphthalene | ND | | 0.37 | 1.0 |
| 2-Chlorotoluene | ND | | 0.16 | 1.0 |
| o-Xylene | ND | | 0.19 | 1.0 |
| Tetrachloroethene | ND | | 0.18 | 1.0 |
| 4-Chlorotoluene | ND | | 0.18 | 1.0 |
| N-Propylbenzene | ND | | 0.16 | 1.0 |
| sec-Butylbenzene | ND | | 0.19 | 1.0 |
| Styrene | ND | | 0.18 | 1.0 |
| trans-1,2-Dichloroethene | ND | | 0.29 | 1.0 |
| trans-1,3-Dichloropropene | ND | | 0.16 | 1.0 |
| tert-Butylbenzene | ND | | 0.16 | 1.0 |
| Trichloroethene | ND | | 0.13 | 1.0 |
| Trichlorofluoromethane | ND | | 0.14 | 1.0 |
| Toluene | ND | | 0.18 | 1.0 |
| Vinyl chloride | ND | | 0.16 | 1.0 |
| Surrogate | | | | |
| | % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 70 - 125 | |
| Toluene-d8 (Surr) | 97 | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | 100 | | 75 - 120 | |
| Dibromofluoromethane | 106 | | 75 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ERM Inc.

Job Number: 500-4840-1

Lab Control Spike - Batch: 500-17450

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 500-17450/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/23/2007 0930
Date Prepared: 06/23/2007 0930

Analysis Batch: 500-17450
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 2S0623A.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|-----------------------------|--------------|--------|--------|----------|------|
| 1,1,1,2-Tetrachloroethane | 25.0 | 28.6 | 114 | 72 - 120 | |
| 1,1,1-Trichloroethane | 25.0 | 28.3 | 113 | 65 - 129 | |
| 1,1,2,2-Tetrachloroethane | 25.0 | 23.7 | 95 | 68 - 120 | |
| 1,1,2-Trichloroethane | 25.0 | 24.6 | 98 | 59 - 135 | |
| 1,1-Dichloroethane | 25.0 | 30.0 | 120 | 63 - 121 | |
| 1,1-Dichloroethene | 25.0 | 28.1 | 112 | 50 - 121 | |
| 1,1-Dichloropropene | 25.0 | 27.5 | 110 | 62 - 122 | |
| 1,2,3-Trichlorobenzene | 25.0 | 23.1 | 92 | 62 - 120 | |
| 1,2,3-Trichloropropane | 25.0 | 24.4 | 98 | 70 - 120 | |
| 1,2,4-Trichlorobenzene | 25.0 | 22.8 | 91 | 63 - 120 | |
| 1,2,4-Trimethylbenzene | 25.0 | 27.1 | 108 | 76 - 120 | |
| 1,2-Dichloroethane | 25.0 | 31.2 | 125 | 68 - 120 | * |
| 1,2-Dichlorobenzene | 25.0 | 27.1 | 108 | 74 - 120 | |
| 1,2-Dichloropropane | 25.0 | 28.8 | 115 | 72 - 120 | |
| 1,3,5-Trimethylbenzene | 25.0 | 28.3 | 113 | 76 - 120 | |
| 1,3-Dichlorobenzene | 25.0 | 26.8 | 107 | 76 - 120 | |
| 1,3-Dichloropropane | 25.0 | 25.7 | 103 | 73 - 120 | |
| 1,4-Dichlorobenzene | 25.0 | 26.0 | 104 | 74 - 120 | |
| 2,2-Dichloropropane | 25.0 | 29.3 | 117 | 56 - 134 | |
| 2-Hexanone | 25.0 | 30.7 | 123 | 54 - 139 | |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 30.1 | 120 | 65 - 128 | |
| Acetone | 25.0 | 32.9 | 131 | 22 - 175 | |
| Benzene | 25.0 | 26.6 | 106 | 68 - 120 | |
| Bromobenzene | 25.0 | 24.4 | 98 | 76 - 120 | |
| Bromoform | 25.0 | 22.9 | 91 | 61 - 125 | |
| Bromodichloromethane | 25.0 | 29.3 | 117 | 71 - 131 | |
| Bromomethane | 25.0 | 36.6 | 146 | 61 - 172 | |
| Bromoform | 25.0 | 23.0 | 92 | 55 - 120 | |
| n-Butylbenzene | 25.0 | 26.5 | 106 | 68 - 120 | |
| cis-1,2-Dichloroethene | 25.0 | 27.5 | 110 | 62 - 127 | |
| cis-1,3-Dichloropropene | 26.9 | 25.3 | 94 | 60 - 120 | |
| Carbon disulfide | 25.0 | 20.2 | 81 | 33 - 120 | |
| Carbon tetrachloride | 25.0 | 28.0 | 112 | 67 - 121 | |
| Chlorobenzene | 25.0 | 26.4 | 106 | 75 - 120 | |
| Chloroethane | 25.0 | 35.4 | 142 | 56 - 152 | |
| Chloroform | 25.0 | 28.1 | 112 | 65 - 127 | |
| Chloromethane | 25.0 | 42.6 | 171 | 50 - 140 | * |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 22.4 | 90 | 60 - 120 | |
| Dibromochloromethane | 25.0 | 26.5 | 106 | 57 - 132 | |
| Dibromomethane | 25.0 | 25.5 | 102 | 71 - 120 | |
| Dichlorodifluoromethane | 25.0 | 39.7 | 159 | 21 - 178 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ERM Inc.

Job Number: 500-4840-1

Lab Control Spike - Batch: 500-17450

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 500-17450/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/23/2007 0930
Date Prepared: 06/23/2007 0930

Analysis Batch: 500-17450
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 2S0623A.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------------------------|--------------|--------|--------|-------------------|------|
| 1,2-Dibromoethane | 25.0 | 25.7 | 103 | 68 - 125 | |
| Ethylbenzene | 25.0 | 27.9 | 112 | 75 - 120 | |
| Hexachlorobutadiene | 25.0 | 25.4 | 101 | 54 - 131 | |
| Isopropylbenzene | 25.0 | 24.5 | 98 | 68 - 120 | |
| p-Isopropyltoluene | 25.0 | 25.6 | 102 | 71 - 120 | |
| 2-Butanone (MEK) | 25.0 | 30.4 | 122 | 36 - 157 | |
| Methylene Chloride | 25.0 | 26.6 | 106 | 52 - 126 | |
| m&p-Xylene | 50.0 | 53.5 | 107 | 75 - 120 | |
| Methyl tert-butyl ether | 25.0 | 21.7 | 87 | 54 - 140 | |
| Naphthalene | 25.0 | 21.4 | 86 | 50 - 120 | |
| 2-Chlorotoluene | 25.0 | 25.1 | 101 | 74 - 120 | |
| o-Xylene | 25.0 | 26.2 | 105 | 75 - 120 | |
| Tetrachloroethene | 25.0 | 27.8 | 111 | 65 - 120 | |
| 4-Chlorotoluene | 25.0 | 25.0 | 100 | 75 - 120 | |
| N-Propylbenzene | 25.0 | 26.5 | 106 | 74 - 120 | |
| sec-Butylbenzene | 25.0 | 26.9 | 108 | 73 - 120 | |
| Styrene | 25.0 | 27.5 | 110 | 77 - 120 | |
| trans-1,2-Dichloroethene | 25.0 | 26.9 | 108 | 57 - 122 | |
| trans-1,3-Dichloropropene | 24.3 | 24.1 | 99 | 61 - 120 | |
| tert-Butylbenzene | 25.0 | 26.3 | 105 | 75 - 120 | |
| Trichloroethene | 25.0 | 27.4 | 109 | 73 - 120 | |
| Trichlorofluoromethane | 25.0 | 35.2 | 141 | 58 - 147 | |
| Toluene | 25.0 | 25.6 | 103 | 75 - 120 | |
| Vinyl chloride | 25.0 | 41.0 | 164 | 57 - 135 | * |
| Surrogate | | % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | | 108 | | 70 - 125 | |
| Toluene-d8 (Surr) | | 97 | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | | 100 | | 75 - 120 | |
| Dibromofluoromethane | | 106 | | 75 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERM Inc.

Job Number: 500-4840-1

Login Number: 4840

| Question | T/F/NA | Comment |
|--|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 2.9 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |

Attachment 4

Laboratory Analytical Report

July 12, 2007 Sample Event

STL

ANALYTICAL REPORT

Job Number: 500-5237-1

Job Description: SECO

For:
ERM Inc.
12755 Olive Blvd
Suite 110
St. Louis, MO 63141

Attention: Mr. Alan Cork



Rich Mannz
Project Manager II
rmannz@stl-inc.com
07/18/2007

Project Manager: Rich Mannz

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the STL Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Severn Trent Laboratories, Inc.

STL Chicago 2417 Bond Street, University Park, IL 60466
Tel (708) 534-5200 Fax (708) 534-5211 www.stl-inc.com



Job Narrative
500-J5237-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ERM Inc.

Job Number: 500-5237-1

| Lab Sample ID Analyte | Client Sample ID Result / Qualifier | Reporting Limit | Units | Method |
|--------------------------|--|--------------------|-------|--------|
| 500-5237-1 | STRIPPER TOWER DISCHARGE | | | |
| cis-1,2-Dichloroethene | 59 | 1.0 | ug/L | 8260B |
| Trichloroethene | 14 | 1.0 | ug/L | 8260B |

METHOD SUMMARY

Client: ERM Inc.

Job Number: 500-5237-1

| Description | Lab Location | Method | Preparation Method |
|---|--------------------|-------------|--------------------|
| Matrix: Water | | | |
| Volatile Organic Compounds by GC/MS Purge-and-Trap | STL CHI STL CHI | SW846 8260B | SW846 5030B |

LAB REFERENCES:

STL CHI = STL Chicago

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

STL Chicago

METHOD / ANALYST SUMMARY

Client: ERM Inc.

Job Number: 500-5237-1

| Method | Analyst | Analyst ID |
|-------------|----------------|------------|
| SW846 8260B | Drabek, Dave J | DJD |

SAMPLE SUMMARY

Client: ERM Inc.

Job Number: 500-5237-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|-----------------------------|---------------|-------------------|--------------------|
| 500-5237-1 | STRIPPER TOWER DISCHARGE | Water | 07/12/2007 1315 | 07/13/2007 0945 |

SAMPLE RESULTS

Mr. Alan Cork
 ERM Inc.
 12755 Olive Blvd
 Suite 110
 St. Louis, MO 63141

Job Number: 500-5237-1

Client Sample ID: STRIPPER TOWER DISCHARGE
Lab Sample ID: 500-5237-1

Date Sampled: 07/12/2007 1315
 Date Received: 07/13/2007 0945
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-----------------------------|------------------|------|----------------|-----------------|----------|
| Method: 8260B | | | Date Analyzed: | 07/16/2007 1919 | |
| Prep Method: 5030B | | | Date Prepared: | 07/16/2007 1919 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 0.33 | 1.0 | 1.0 |
| 1,1,1-Trichloroethane | ND | ug/L | 0.17 | 1.0 | 1.0 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 0.34 | 1.0 | 1.0 |
| 1,1,2-Trichloroethane | ND | ug/L | 0.24 | 1.0 | 1.0 |
| 1,1-Dichloroethane | ND | ug/L | 0.15 | 1.0 | 1.0 |
| 1,1-Dichloroethene | ND | ug/L | 0.25 | 1.0 | 1.0 |
| 1,1-Dichloropropene | ND | ug/L | 0.38 | 1.0 | 1.0 |
| 1,2,3-Trichlorobenzene | ND | ug/L | 0.43 | 1.0 | 1.0 |
| 1,2,3-Trichloropropane | ND | ug/L | 0.35 | 1.0 | 1.0 |
| 1,2,4-Trichlorobenzene | ND | ug/L | 0.36 | 1.0 | 1.0 |
| 1,2,4-Trimethylbenzene | ND | ug/L | 0.26 | 1.0 | 1.0 |
| 1,2-Dichloroethane | ND | ug/L | 0.25 | 1.0 | 1.0 |
| 1,2-Dichlorobenzene | ND | ug/L | 0.29 | 1.0 | 1.0 |
| 1,2-Dichloropropane | ND | ug/L | 0.19 | 1.0 | 1.0 |
| 1,3,5-Trimethylbenzene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| 1,3-Dichlorobenzene | ND | ug/L | 0.21 | 1.0 | 1.0 |
| 1,3-Dichloropropane | ND | ug/L | 0.22 | 1.0 | 1.0 |
| 1,4-Dichlorobenzene | ND | ug/L | 0.25 | 1.0 | 1.0 |
| 2,2-Dichloropropane | ND | ug/L | 0.17 | 1.0 | 1.0 |
| 2-Hexanone | ND | ug/L | 0.99 | 5.0 | 1.0 |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 0.92 | 5.0 | 1.0 |
| Acetone | ND | ug/L | 1.4 | 5.0 | 1.0 |
| Benzene | ND | ug/L | 0.23 | 1.0 | 1.0 |
| Bromobenzene | ND | ug/L | 0.22 | 1.0 | 1.0 |
| Bromo(chloromethane | ND | ug/L | 0.27 | 1.0 | 1.0 |
| Bromodichloromethane | ND | ug/L | 0.22 | 1.0 | 1.0 |
| Bromomethane | ND | ug/L | 0.59 | 1.0 | 1.0 |
| Bromoform | ND | ug/L | 0.32 | 1.0 | 1.0 |
| n-Butylbenzene | ND | ug/L | 0.35 | 1.0 | 1.0 |
| cis-1,2-Dichloroethene | 59 | ug/L | 0.20 | 1.0 | 1.0 |
| cis-1,3-Dichloropropene | ND | ug/L | 0.15 | 1.0 | 1.0 |
| Carbon disulfide | ND | ug/L | 0.15 | 5.0 | 1.0 |
| Carbon tetrachloride | ND | ug/L | 0.34 | 1.0 | 1.0 |
| Chlorobenzene | ND | ug/L | 0.15 | 1.0 | 1.0 |
| Chloroethane | ND | ug/L | 0.32 | 1.0 | 1.0 |
| Chloroform | ND | ug/L | 0.14 | 1.0 | 1.0 |
| Chloromethane | ND | ug/L | 0.20 | 1.0 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | ND | ug/L | 0.41 | 1.0 | 1.0 |
| Dibromochloromethane | ND | ug/L | 0.22 | 1.0 | 1.0 |

Mr. Alan Cork
 ERM Inc.
 12755 Olive Blvd
 Suite 110
 St. Louis, MO 63141

Job Number: 500-5237-1

Client Sample ID: STRIPPER TOWER DISCHARGE
Lab Sample ID: 500-5237-1

Date Sampled: 07/12/2007 1315
 Date Received: 07/13/2007 0945
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|------------------------------|------------------|------|------|----------|----------|
| Dibromomethane | ND | ug/L | 0.21 | 1.0 | 1.0 |
| Dichlorodifluoromethane | ND | ug/L | 0.12 | 1.0 | 1.0 |
| 1,2-Dibromoethane | ND | ug/L | 0.33 | 1.0 | 1.0 |
| Ethylbenzene | ND | ug/L | 0.21 | 1.0 | 1.0 |
| Hexachlorobutadiene | ND | ug/L | 0.36 | 1.0 | 1.0 |
| Isopropylbenzene | ND | ug/L | 0.20 | 1.0 | 1.0 |
| p-Isopropyltoluene | ND | ug/L | 0.29 | 1.0 | 1.0 |
| 2-Butanone (MEK) | ND | ug/L | 1.0 | 5.0 | 1.0 |
| Methylene Chloride | ND | ug/L | 0.24 | 1.0 | 1.0 |
| m&p-Xylene | ND | ug/L | 0.36 | 2.0 | 1.0 |
| Methyl tert-butyl ether | ND | ug/L | 0.21 | 1.0 | 1.0 |
| Naphthalene | ND | ug/L | 0.37 | 1.0 | 1.0 |
| 2-Chlorotoluene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| o-Xylene | ND | ug/L | 0.19 | 1.0 | 1.0 |
| Tetrachloroethene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| 4-Chlorotoluene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| N-Propylbenzene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| sec-Butylbenzene | ND | ug/L | 0.19 | 1.0 | 1.0 |
| Styrene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| trans-1,2-Dichloroethene | ND | ug/L | 0.29 | 1.0 | 1.0 |
| trans-1,3-Dichloropropene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| tert-Butylbenzene | ND | ug/L | 0.16 | 1.0 | 1.0 |
| Trichloroethene | 14 | ug/L | 0.13 | 1.0 | 1.0 |
| Trichlorofluoromethane | ND | ug/L | 0.14 | 1.0 | 1.0 |
| Toluene | ND | ug/L | 0.18 | 1.0 | 1.0 |
| Vinyl chloride | ND | ug/L | 0.16 | 1.0 | 1.0 |
| Surrogate | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 113 | % | | 70 - 125 | |
| Toluene-d8 (Surr) | 106 | % | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | 104 | % | | 75 - 120 | |
| Dibromofluoromethane | 110 | % | | 75 - 120 | |
| Acceptance Limits | | | | | |

DATA REPORTING QUALIFIERS

Client: ERM Inc.

Job Number: 500-5237-1

| Lab Section | Qualifier | Description |
|--------------------|------------------|--|
| GC/MS VOA | * | LCS or LCSD exceeds the control limits |
| | * | RPD of the LCS and LCSD exceeds the control limits |

QUALITY CONTROL RESULTS

Quality Control Results

Client: ERM Inc.

Job Number: 500-5237-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---------------------------------|-----------------------------|--------------|---------------|--------|------------|
| GC/MS VOA | | | | | |
| Analysis Batch:500-18587 | | | | | |
| LCS 500-18587/7 | Lab Control Spike | T | Water | 8260B | |
| LCSD 500-18587/29 | Lab Control Spike Duplicate | T | Water | 8260B | |
| MB 500-18587/6 | Method Blank | T | Water | 8260B | |
| 500-5237-1 | STRIPPER TOWER DISCHARGE | T | Water | 8260B | |

Report Basis

T = Total

Quality Control Results

Client: ERM Inc.

Job Number: 500-5237-1

Surrogate Recovery Report

8260B Volatile Organic Compounds by GC/MS

Client Matrix: Water

| Lab Sample ID | Client Sample ID | (BFB) (%Rec) | (DCE) (%Rec) | (DFM) (%Rec) | (TOL) (%Rec) |
|-------------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|
| 500-5237-1 | STRIPPER TOWER DISCHARGE | 104 | 113 | 110 | 106 |
| LCS 500-18587/7 | | 106 | 105 | 106 | 107 |
| LCSD 500-18587/29 | | 108 | 110 | 113 | 105 |
| MB 500-18587/6 | | 105 | 107 | 106 | 105 |

| Surrogate | Acceptance Limits |
|------------------------------------|-------------------|
| (BFB) 4-Bromofluorobenzene (Surr) | 75 - 120 |
| (DCE) 1,2-Dichloroethane-d4 (Surr) | 70 - 125 |
| (DFM) Dibromofluoromethane | 75 - 120 |
| (TOL) Toluene-d8 (Surr) | 75 - 120 |

Quality Control Results

Client: ERM Inc.

Job Number: 500-5237-1

Method Blank - Batch: 500-18587

**Method: 8260B
Preparation: 5030B**

Lab Sample ID: MB 500-18587/6

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/16/2007 1027

Date Prepared: 07/16/2007 1027

Analysis Batch: 500-18587

Prep Batch: N/A

Units: ug/L

Instrument ID: Agilent 6890N GC - 5973N

Lab File ID: 2M0716.D

Initial Weight/Volume: 10 mL

Final Weight/Volume: 10 mL

| Analyte | Result | Qual | MDL | RL |
|-----------------------------|--------|------|------|-----|
| 1,1,1,2-Tetrachloroethane | ND | | 0.33 | 1.0 |
| 1,1,1-Trichloroethane | ND | | 0.17 | 1.0 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.34 | 1.0 |
| 1,1,2-Trichloroethane | ND | | 0.24 | 1.0 |
| 1,1-Dichloroethane | ND | | 0.15 | 1.0 |
| 1,1-Dichloroethene | ND | | 0.25 | 1.0 |
| 1,1-Dichloropropene | ND | | 0.38 | 1.0 |
| 1,2,3-Trichlorobenzene | ND | | 0.43 | 1.0 |
| 1,2,3-Trichloropropane | ND | | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | ND | | 0.36 | 1.0 |
| 1,2,4-Trimethylbenzene | ND | | 0.26 | 1.0 |
| 1,2-Dichloroethane | ND | | 0.25 | 1.0 |
| 1,2-Dichlorobenzene | ND | | 0.29 | 1.0 |
| 1,2-Dichloropropane | ND | | 0.19 | 1.0 |
| 1,3,5-Trimethylbenzene | ND | | 0.18 | 1.0 |
| 1,3-Dichlorobenzene | ND | | 0.21 | 1.0 |
| 1,3-Dichloropropane | ND | | 0.22 | 1.0 |
| 1,4-Dichlorobenzene | ND | | 0.25 | 1.0 |
| 2,2-Dichloropropane | ND | | 0.17 | 1.0 |
| 2-Hexanone | ND | | 0.99 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.92 | 5.0 |
| Acetone | ND | | 1.4 | 5.0 |
| Benzene | ND | | 0.23 | 1.0 |
| Bromobenzene | ND | | 0.22 | 1.0 |
| Bromochloromethane | ND | | 0.27 | 1.0 |
| Bromodichloromethane | ND | | 0.22 | 1.0 |
| Bromomethane | ND | | 0.59 | 1.0 |
| Bromoform | ND | | 0.32 | 1.0 |
| n-Butylbenzene | ND | | 0.35 | 1.0 |
| cis-1,2-Dichloroethene | ND | | 0.20 | 1.0 |
| cis-1,3-Dichloropropene | ND | | 0.15 | 1.0 |
| Carbon disulfide | ND | | 0.15 | 5.0 |
| Carbon tetrachloride | ND | | 0.34 | 1.0 |
| Chlorobenzene | ND | | 0.15 | 1.0 |
| Chloroethane | ND | | 0.32 | 1.0 |
| Chloroform | ND | | 0.14 | 1.0 |
| Chloromethane | ND | | 0.20 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.41 | 1.0 |
| Dibromochloromethane | ND | | 0.22 | 1.0 |
| Dibromomethane | ND | | 0.21 | 1.0 |
| Dichlorodifluoromethane | ND | | 0.12 | 1.0 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ERM Inc.

Job Number: 500-5237-1

Method Blank - Batch: 500-18587

Lab Sample ID: MB 500-18587/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/16/2007 1027
Date Prepared: 07/16/2007 1027

Analysis Batch: 500-18587
Prep Batch: N/A
Units: ug/L

Method: 8260B
Preparation: 5030B

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 2M0716.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Result | Qual | MDL | RL |
|------------------------------|--------|------|-------------------|-----|
| 1,2-Dibromoethane | ND | | 0.33 | 1.0 |
| Ethylbenzene | ND | | 0.21 | 1.0 |
| Hexachlorobutadiene | ND | | 0.36 | 1.0 |
| Isopropylbenzene | ND | | 0.20 | 1.0 |
| p-Isopropyltoluene | ND | | 0.29 | 1.0 |
| 2-Butanone (MEK) | ND | | 1.0 | 5.0 |
| Methylene Chloride | ND | | 0.24 | 1.0 |
| m&p-Xylene | ND | | 0.36 | 2.0 |
| Methyl tert-butyl ether | ND | | 0.21 | 1.0 |
| Naphthalene | ND | | 0.37 | 1.0 |
| 2-Chlorotoluene | ND | | 0.16 | 1.0 |
| o-Xylene | ND | | 0.19 | 1.0 |
| Tetrachloroethene | ND | | 0.18 | 1.0 |
| 4-Chlorotoluene | ND | | 0.18 | 1.0 |
| N-Propylbenzene | ND | | 0.16 | 1.0 |
| sec-Butylbenzene | ND | | 0.19 | 1.0 |
| Styrene | ND | | 0.18 | 1.0 |
| trans-1,2-Dichloroethene | ND | | 0.29 | 1.0 |
| trans-1,3-Dichloropropene | ND | | 0.16 | 1.0 |
| tert-Butylbenzene | ND | | 0.16 | 1.0 |
| Trichloroethene | ND | | 0.13 | 1.0 |
| Trichlorofluoromethane | ND | | 0.14 | 1.0 |
| Toluene | ND | | 0.18 | 1.0 |
| Vinyl chloride | ND | | 0.16 | 1.0 |
| Surrogate | % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 70 - 125 | |
| Toluene-d8 (Surr) | 105 | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | 105 | | 75 - 120 | |
| Dibromofluoromethane | 106 | | 75 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ERM Inc.

Job Number: 500-5237-1

Lab Control Spike/ Lab Control Spike Duplicate Recovery Report - Batch: 500-18587

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 500-18587/7

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/16/2007 1050

Date Prepared: 07/16/2007 1050

Analysis Batch: 500-18587

Prep Batch: N/A

Units: ug/L

Instrument ID: Agilent 6890N GC - 5973N

Lab File ID: 2S0716.D

Initial Weight/Volume: 10 mL

Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 500-18587/29

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/16/2007 2114

Date Prepared: 07/16/2007 2114

Analysis Batch: 500-18587

Prep Batch: N/A

Units: ug/L

Instrument ID: Agilent 6890N GC - 5973I

Lab File ID: 2T0716.D

Initial Weight/Volume: 10 mL

Final Weight/Volume: 10 mL

| Analyte | % Rec. | | | | | | |
|-----------------------------|--------|------|----------|-----|-----------|----------|-----------|
| | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| 1,1,1,2-Tetrachloroethane | 97 | 83 | 72 - 120 | 16 | 20 | | |
| 1,1,1-Trichloroethane | 90 | 76 | 65 - 129 | 17 | 20 | | |
| 1,1,2,2-Tetrachloroethane | 87 | 78 | 68 - 120 | 12 | 20 | | |
| 1,1,2-Trichloroethane | 93 | 86 | 59 - 135 | 8 | 20 | | |
| 1,1-Dichloroethane | 86 | 76 | 63 - 121 | 13 | 20 | | |
| 1,1-Dichloroethene | 83 | 70 | 50 - 121 | 17 | 20 | | |
| 1,1-Dichloropropene | 87 | 73 | 62 - 122 | 17 | 20 | | |
| 1,2,3-Trichlorobenzene | 98 | 82 | 62 - 120 | 17 | 20 | | |
| 1,2,3-Trichloropropane | 90 | 77 | 70 - 120 | 16 | 20 | | |
| 1,2,4-Trichlorobenzene | 110 | 89 | 63 - 120 | 21 | 20 | | * |
| 1,2,4-Trimethylbenzene | 93 | 79 | 76 - 120 | 17 | 20 | | |
| 1,2-Dichloroethane | 91 | 78 | 68 - 120 | 14 | 20 | | |
| 1,2-Dichlorobenzene | 95 | 80 | 74 - 120 | 16 | 20 | | |
| 1,2-Dichloropropane | 92 | 79 | 72 - 120 | 15 | 20 | | |
| 1,3,5-Trimethylbenzene | 94 | 78 | 76 - 120 | 18 | 20 | | |
| 1,3-Dichlorobenzene | 92 | 77 | 76 - 120 | 17 | 20 | | |
| 1,3-Dichloropropane | 94 | 82 | 73 - 120 | 14 | 20 | | |
| 1,4-Dichlorobenzene | 91 | 77 | 74 - 120 | 17 | 20 | | |
| 2,2-Dichloropropane | 87 | 69 | 56 - 134 | 24 | 20 | | * |
| 2-Hexanone | 82 | 76 | 54 - 139 | 8 | 20 | | |
| 4-Methyl-2-pentanone (MIBK) | 96 | 80 | 65 - 128 | 19 | 20 | | |
| Acetone | 83 | 74 | 22 - 175 | 12 | 20 | | |
| Benzene | 91 | 78 | 68 - 120 | 16 | 20 | | |
| Bromobenzene | 94 | 81 | 76 - 120 | 14 | 20 | | |
| Bromochloromethane | 81 | 102 | 61 - 125 | 23 | 20 | | * |
| Bromodichloromethane | 104 | 90 | 71 - 131 | 14 | 20 | | |
| Bromomethane | 98 | 103 | 61 - 172 | 5 | 20 | | |
| Bromoform | 97 | 82 | 55 - 120 | 17 | 20 | | |
| n-Butylbenzene | 98 | 75 | 68 - 120 | 27 | 20 | | * |
| cis-1,2-Dichloroethene | 95 | 85 | 62 - 127 | 11 | 20 | | |
| cis-1,3-Dichloropropene | 86 | 72 | 60 - 120 | 17 | 20 | | |
| Carbon disulfide | 64 | 54 | 33 - 120 | 18 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ERM Inc.

Job Number: 500-5237-1

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 500-18587**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 500-18587/7
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 07/16/2007 1050
 Date Prepared: 07/16/2007 1050

Analysis Batch: 500-18587
 Prep Batch: N/A
 Units: ug/L

Instrument ID: Agilent 6890N GC - 5973N
 Lab File ID: 2S0716.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 500-18587/29
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 07/16/2007 2114
 Date Prepared: 07/16/2007 2114

Analysis Batch: 500-18587
 Prep Batch: N/A
 Units: ug/L

Instrument ID: Agilent 6890N GC - 5973I
 Lab File ID: 2T0716.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|-----------------------------|-----|------|----------|-----|-----------|----------|-----------|
| Carbon tetrachloride | 93 | 75 | 67 - 121 | 22 | 20 | | * |
| Chlorobenzene | 93 | 80 | 75 - 120 | 14 | 20 | | |
| Chloroethane | 93 | 97 | 56 - 152 | 4 | 20 | | |
| Chloroform | 90 | 81 | 65 - 127 | 11 | 20 | | |
| Chloromethane | 78 | 89 | 50 - 140 | 13 | 20 | | |
| 1,2-Dibromo-3-Chloropropane | 90 | 80 | 60 - 120 | 12 | 20 | | |
| Dibromochloromethane | 100 | 87 | 57 - 132 | 13 | 20 | | |
| Dibromomethane | 95 | 80 | 71 - 120 | 17 | 20 | | |
| Dichlorodifluoromethane | 80 | 87 | 21 - 178 | 8 | 20 | | |
| 1,2-Dibromoethane | 93 | 80 | 68 - 125 | 16 | 20 | | |
| Ethylbenzene | 94 | 79 | 75 - 120 | 17 | 20 | | |
| Hexachlorobutadiene | 105 | 81 | 54 - 131 | 25 | 20 | | * |
| Isopropylbenzene | 84 | 70 | 68 - 120 | 18 | 20 | | |
| p-Isopropyltoluene | 96 | 77 | 71 - 120 | 21 | 20 | | * |
| 2-Butanone (MEK) | 95 | 83 | 36 - 157 | 14 | 20 | | |
| Methylene Chloride | 90 | 85 | 52 - 126 | 5 | 20 | | |
| m&p-Xylene | 92 | 77 | 75 - 120 | 18 | 20 | | |
| Methyl tert-butyl ether | 83 | 97 | 54 - 140 | 16 | 20 | | |
| Naphthalene | 95 | 81 | 50 - 120 | 16 | 20 | | |
| 2-Chlorotoluene | 88 | 75 | 74 - 120 | 16 | 20 | | |
| o-Xylene | 95 | 79 | 75 - 120 | 18 | 20 | | |
| Tetrachloroethene | 95 | 76 | 65 - 120 | 22 | 20 | | * |
| 4-Chlorotoluene | 89 | 74 | 75 - 120 | 18 | 20 | | * |
| N-Propylbenzene | 90 | 74 | 74 - 120 | 20 | 20 | | |
| sec-Butylbenzene | 94 | 75 | 73 - 120 | 22 | 20 | | * |
| Styrene | 97 | 83 | 77 - 120 | 16 | 20 | | |
| trans-1,2-Dichloroethene | 90 | 79 | 57 - 122 | 12 | 20 | | |
| trans-1,3-Dichloropropene | 91 | 75 | 61 - 120 | 19 | 20 | | |
| tert-Butylbenzene | 92 | 76 | 75 - 120 | 20 | 20 | | |
| Trichloroethene | 93 | 76 | 73 - 120 | 20 | 20 | | |
| Trichlorofluoromethane | 95 | 94 | 58 - 147 | 0 | 20 | | |
| Toluene | 91 | 76 | 75 - 120 | 18 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ERM Inc.

Job Number: 500-5237-1

Lab Control Spike/ Lab Control Spike Duplicate Recovery Report - Batch: 500-18587

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 500-18587/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/16/2007 1050
Date Prepared: 07/16/2007 1050

Analysis Batch: 500-18587
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 2S0716.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 500-18587/29
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/16/2007 2114
Date Prepared: 07/16/2007 2114

Analysis Batch: 500-18587
Prep Batch: N/A
Units: ug/L

Instrument ID: Agilent 6890N GC - 5973I
Lab File ID: 2T0716.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | % Rec. | | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|------------------------------|--------|-----------|----------|------------|-----------|-------------------|-----------|
| | LCS | LCSD | | | | | |
| Vinyl chloride | 86 | 91 | 57 - 135 | 6 | 20 | | |
| Surrogate | | LCS % Rec | | LCSD % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 110 | | | 70 - 125 | |
| Toluene-d8 (Surr) | 107 | | 105 | | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | 106 | | 108 | | | 75 - 120 | |
| Dibromofluoromethane | 106 | | 113 | | | 75 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ERM Inc.

Job Number: 500-5237-1

Login Number: 5237

| Question | T/F/NA | Comment |
|--|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 3.2 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |